



MAJOR PROJECTS INVENTORY

October, 1985

Office of Industrial and Regional Benefits



Government of Canada Regional Ind Expansion Gouvernement du Canada

Regional Industrial Expansion industrielle régionale

The information in this publication was assembled by the Office of Industrial and Regional Benefits with the generous co-operation of major project sponsors who completed the major project questionnaires.

The Office was created in 1981 to identify promising opportunities arising from major project developments in Canada and to help Canadians in all parts of the country exploit and benefit economically from these opportunities. Through consultations with major project sponsors, the Office ensures that competitive Canadian suppliers of goods and services have full and fair access to major project opportunities. It also promotes the development of Canadian supply capability, where economically warranted, to meet project demand. Another of the Office's functions is to encourage the exchange of information between project sponsors and Canadian companies so that project sponsors will be more aware of the ability of Canadian suppliers and Canadian suppliers better informed of opportunities inherent in major projects.

The Major Projects Inventory publication is a source document for various federal government departments and other bodies.

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FUTURE ISSUES WILL BE MAILED AUTOMATICALLY TO USERS WHO COMPLETE AND RETURN THE FORM ON THE LAST PAGE.

MAJOR PROJECTS INVENTORY ISSUE 3

OCTOBER 1985

Prepared by:
Office of Industrial and
Regional Benefits
Department of Regional
Industrial Expansion



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INTRODUCTION

This publication is an update of the two previous inventories published in October, 1981, and March, 1983. It attempts to present a complete picture of existing and potential major project developments in Canada during the next decade. It has been produced primarily for the benefit of Canadian suppliers to major projects, but should prove helpful also to project sponsors and potential investors, to governments in Canada and to economic analysts and others concerned with projecting and analysing future levels of economic activity across the country.

The Inventory contains information on Canadian projects which, in general, have a minimum investment value of \$100 million in 1984 constant dollars and are, or could be, under way before 1995. The information was provided by the sponsors of each project. The Inventory covers construction and development projects in the fields of hydrocarbon extraction and processing, petrochemicals, electrical generation and distribution, transportation, industrial minerals, metal mining, primary metals, forest products and other material production. It also covers major public procurement or construction projects.

The project listing includes description, sponsor, location, value, timing and status and may contain additional information on the size and value of major facilities, equipment required and so on. Each project has been assigned one of fifteen industry classifications. The listings are arranged according to geographical location, and within a location by project name. Summary Tables start on page 5.

The name and telephone number of a contact in the sponsor firm is also included for each project. This is intended to encourage would-be Canadian suppliers to make their own direct approaches to sponsors.

An explanation of the format and the terms used and an alphabetical index of sponsor companies with a list of their projects follow the main project listing.

The Inventory has been compiled from a variety of sources but most of the material was generously contributed by the project sponsors in response to questionnaires from the Office. Every effort has been made to present current information but, due to changing economic conditions and the inevitable time lag between receipt and publication of data, some details may be out of date. Further verification with the sponsor companies is therefore recommended before using the information as the basis of any business decision. It should also be remembered that listing of a particular project in this inventory is no guarantee of the project's eventual start or completion.

If we have failed to identify an eligible major project in our listing, we will be happy to include it in future issues. New information and queries concerning the content of this publication should be directed to:

Office of Industrial and Regional Benefits (FIRB)
Department of Regional Industrial Expansion
235 Queen Street
Ottawa, Ontario
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Table 1 VALUE AND NUMBER OF PROJECTS
BY INDUSTRY CLASSIFICATION AND STATUS
(million \$)

Classification		Total	Under Construction	Engineering Under way	Possible
Oil and Gas Development	Val. No.	\$23,332	\$ 1,035 5	\$12,497 9	\$ 9,800
Oil and Gas Exploration	Val. No.	7,304	7,039 11	265 1	-
Paper & Allied Industries	Val. No.	2,839	1,143 6	1,063	633 4
Primary Metal	Val. No.	3,724 9	2,378	946 3	400
Refined Petroleum	Val. No.	700	-	-	700 1
Chemicals & Products	Val. No.	1,575 6	425 3	100 1	1,050
Transportation	Val. No.	23,908	4,546 12	13,890	5,472 6
Pipelines	Val. No.	22,408	2,263 5		20,145
Electric Power	Val. No.	43,354	13,758 10	6,898 11	22,698 14*
Metal Mining	Val. No.	1,798	1,088 6	100 1	610
Non-Metallic Mining	Val. No.	1,674	852 3	122 1	700 1
Coal Mining	Val. No.	2,698 10	425 2	103 1	2,170 7
Government	Val.	12,593	7,213 5	3,700	1,680 3
All Other Industries	Val. No.	1,242	992 2	100 1	150 1

^{*} A possible project is included in the Number even though there is no value for it included in the Value subtotal.

Table 2 VALUE AND NUMBER OF PROJECTS
BY GEOGRAPHICAL LOCATION AND INDUSTRY CLASSIFICATION
(million \$)

Classification		NWT	ВС	ALTA	SASK	MAN
Oil and Gas Development	Val.	\$ 860	\$3,000 1	\$6,975 9	\$ 450 1	=
Oil and Gas Exploration	Val. No.	4,158	-	-	-	I
Paper & Allied Industries	Val. No.	-	364 2	-		-
Primary Metal	Val. No.	-	300 1	-	-	
Refined Petroleum	Val.	-	-		-	
Chemicals & Products	Val. No.	-	500 1	755 3	-	
Transportation	Val.	-	1,676 3	540 3		
Pipelines	Val. No.	1	740 2	882 1	656 2	_ 5
Electric Power	Val.	- 1	-	4,351	1,206	\$2,049
Metal Mining	Val.	-	323	- 1	585	100
Non-Metallic Mining	Val. No.	-	122	1	1,202	=
Coal Mining	Val.	-	1,113 4	1,160	-	
Government	Val.	1	-		-	
All Other Industries	Val.	Ī		ny 3	150 1	_ :

Table 2 (continued)

ONT	QUE	NB	NS	NFLD	INTERPROV
-	\$ 117 1	-	\$2,480 1	\$5,750 2	\$3,700 1
-	Ξ.	-	839 3	2,307 5	-
\$ 115 1	1,930 7	\$ 430 2	_	-	-
1,624	1,800 2	-	-	-	-
-	-	-	700 1	-	-
320 2	-	-	-	-	-
5,343 7	1,402 6		-	-	14,947 7
-	867 2	-	-	-	19,263
11,231	6,055 14*	1,894	11,168	5,400 2	-
520 2	-	-	170 1	-	100
=	-	350	-	-	-
-	-	-	425 2	-	-
-	147 1	-	-	-	12,446 10
1,092	-	Ī	-	-	-

^{*} A project is included in the Number even though there is no value for it included in the Value subtotal.

Table 3 VALUE AND NUMBER OF PROJECTS
BY GEOGRAPHICAL LOCATION AND STATUS
(million \$)

Province		Total	Under Construction	Engineering Under Way	Possible
Northwest Territories	Val. No.	\$ 5,018	\$ 4,218 5	-	\$ 800 1
British Columbia	Val. No.	8,138 17	•	\$ 497 3	5,825 10
Alberta	Val. No.	14,663 24	3,069 7	2,457 8	9,137 9
Saskatchewan	Val. No.	4,249 12		450 1	2,297 6
Manitoba	Val. No.	2,149 4		1,922	- -
Ontario	Val. No.	20,245		3,094 6	2,100
Quebec	Val. No.	12,318 33		5,212 8	1,895 9*
New Brunswick	Val. No.	2,674 6		470 2	1,654
Nova Scotia	Val. No.	15,782 12	1,434 6	2,837 2	11,511
Newfoundland	Val. No.	13,457 9	2,042 4	4,015 2	7,400
Interprovincial	Val.	50,456 25		18,830 8	23,589
TOTAL		\$149,149 172	\$43 , 157 74	\$39,784 42	\$66,208 56

^{*} A project is included in the Number even though there is no value for it included in the Value subtotal.

ARCTIC EXPLORA	VALUE: \$ 715 million
Sponsor	Panarctic Oils Ltd.
Class - Type	09 - Oil and Gas Exploration
Location	Northwest Territories - Arctic Islands (Melville, Lougheed and Ellef Ringness)
Description	Panarctic expects to drill 5 exploration wells during the 1986 and 1987 drilling seasons. Estimated value of projected work plan is \$140 million.
Status	Under construction/Under way
Timing	Start - 1982 Completion - 1987
Employment	Construction: 170 person years (for 1986-1987 drilling season)
Contact	R.C. Rankin, Calgary, (403) 269-0537 P03-03

BENT HORN EXPLORATION AND DEVELOPMENT

VALUE: \$

60 million

Sponsor Panarctic Oils Ltd.

Class - Type 07 - Oil Field Development

Location Northwest Territories - Cameron Island Arctic

Islands

Description As part of ongoing Arctic development program, Panarctic Oils Ltd. is proceeding to develop an

oil well on Cameron Island and ship two million barrels of oil to Eastern Canadian markets in single annual shipments over a nine to ten year

period.

Facilities Airstrip

> Aggregate Source Marine charters

Access Roads

Under construction/Under way Status

Timing Start - 1985 Completion - 1988

Major Oil field equipment: \$6 million

Tank farm: 9 million Equipment

Construction: 42 person years Employment

Permanent: 7 - 10 employees

Contact K.G. Alexander, Calgary, (403) 269-0503 P03-02

DOME BEAUFORT EXPLORATION PROGRAM

VALUE: \$ 969 million

Sponsor

Dome Petroleum Limited

Class - Type

09 - Crude Oil and Gas Exploration

Location

Northwest Territories - Beaufort Sea off

Mackenzie Delta

Description

A program to drill offshore exploratory wells in

the Beaufort Sea.

Facilities

Camp

Status

Under construction/Under way

Timing

Start - 1982

Completion - 1987

Major

Equipment

Drill ships Supply vessels

Icebreakers

Drilling caisson

2 Drilling rigs

Employment

Construction: 1,800 person years

Contact

H.J. Strain, Calgary, (403) 231-8080

D03-05

ESSO BEAUFORT SEA EXPLORATION

VALUE: \$

800 million

Sponsor

Esso Resources Canada Ltd.

Class - Type

09 - Crude Oil and Gas Exploration

Location

Northwest Territories - Beaufort Sea/

Mackenzie Delta

Description

A 5 year exploration program including the drilling of seven offshore exploration wells and related seismic activities. The program is about

80% complete.

Facilities

Marine vessels

Cranes and heavy construction equipment

Drilling rigs and supplies Caisson retained island

Participants

Esso Resources Canada Ltd.

Home Oil (operator)

Status

Under construction/Under way

Timing

Start - 1982

Completion - 1986

Major

Equipment

Trailing suction hopper dredge

Employment

Construction: 1,250 person years 250 employees Permanent:

Contact

J.E. Lee, Calgary, (403) 237-4058

E01-03

GULF BEAUFORT SEA EXPLORATION AGREEMENT

VALUE: \$

1,674 million

Sponsor

Gulf Canada Resources Inc.

Class - Type

09 - Oil and Gas Exploration

Location

Northwest Territories - Beaufort Sea area

Description

Gulf is proceeding with its exploration program, including delineation drilling at promising sites, and expects to spend an estimated \$423 million between 1985 and the end of the

Agreement.

Participants

Various Canadian based petroleum companies

Status

Under construction/Under way

Timing

Start - 1982

Completion - 1987

Major

Conical floating drilling barge

Equipment

Caisson retained island

Icebreakers (2)

Ice strengthened supply vessels (2)

Contact

A. Bhasin, Calgary, (403) 233-4987

	- 14 -
TAGLU GAS PLAN	T VALUE: \$ 800 million
Sponsor	Esso Resources Canada Ltd.
Class - Type	07 - Gas Processing Plant
Location	Northwest Territories - Mackenzie Delta
Description	Construction of a 13 million cubic meter per day gas conditioning plant to process gas from the Taglu gas field including drilling of up to 20 initial gas production wells. The timing is uncertain but the sponsor hopes to complete the project in the 1990's. A pipeline to southern markets would be required such as the Polar Gas Pipeline project listed in the Interprovincial section.
Status	Possible
Contact	J.P.H. Batteke, Calgary, (403) 237-2164 E01-16

ADVANCED	LIGHT	RAPID	TRANSIT.	PHASE I	
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ADVANCED LIGHT	VALUE: \$ 85	4 million
Sponsor	BC Transit	
Class - Type	45 - City Transit	
Location	British Columbia – Downtown Vancou through Burnaby to downtown New We	
Description	Construction of a Light Rapid Tran connecting downtown Vancouver to d Westminster involving driverless v will cover 2 km underground, 6 km 13 km on an elevated guideway.	owntown New ehicles which
Facilities	Vehicles and controls: Guideway: 15 stations: Maintenance facility: Bus loops and parking (not incl.):	\$149 million 251 million 61 million 17 million 10 million
Status	Under construction/Under way	
Timing	Start - 1981 Completio	n - 1985
Major Equipment	Vehicles: Power distribution equipment: Linear induction motor & power rail: Trackwork:	\$114 million 20 million 25 million 24 million
	Command & control equipment:	10 million
Contractors	Metro Canada Ltd General contra	ctor
Employment	Construction: 5,500 person years Permanent: 250 employees	
Contact	M.J. O'Connor, Vancouver, (604) 68	3-8401 B07-01

ADVANCED LIGHT RAPID TRANSIT, PHASE II

VALUE: \$ 272 million

Sponsor BC Transit

45 - Transit Construction Class - Type

Location British Columbia - from New Westminster to

Whalley (Surrey)

Description Extension to ALRT system consisting of 7 km of

> track and three stations. A cable-stayed bridge will be built across the Fraser river. Operation

is planned as early as December 1988.

Facilities Guideway (including bridge): \$102 million Stations and substations: 22 million

> 22 million Property:

Engineering under way Status

Major

Vehicles:

Start - mid 1985 Completion - 1988 Timing

Command and control: Equipment 9 million

Trackwork: 4 million

Linear induction motor and

4 million power rail:

Power distribution equipment: 3 million

18 million Guideway components:

Employment Construction 1,995 person years

> Permanent: 300 employees (whole system)

Contact M.J. O'Connor, Vancouver, (604) 683-8401

B07-02

\$ 10 million

EAGLET FLUC	RSPAR	MINE
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VALUE: \$

122 million

Sponsor

Eaglet Mines Ltd.

Class - Type

62 - Fluorspar Mine

Location

British Columbia - North side of Quesnel Lake,

40 km from Horsefly.

Description

Development of 5,000 tonnes/day (t/d) underground

fluorspar mine including roads, power supply and

other infrastructure.

Facilities.

Underground mine:

\$16 million

Processing facilities, 5,000 t/d:

53 million

Dock facilities:

25 million

Horsefly infrastructure: Upgrading of roads:

5 million 5 million

Powerline and infrastructure: 18 million

Status

Engineering under way

Timing

Start - 1985

Completion - 1986

Employment

Permanent: 320 employees

Contact

A. Robertson, Vancouver, (604) 680-9824

E09-01

GAS PIPELINE TO	VANCOUVER ISLAND VALUE: \$ 400 million
Sponsor	British Columbia Hydro and Power Authority
Class - Type	46 - Natural Gas Pipeline
Location	British Columbia - submarine pipeline from Delta to Nanaimo and on land from Victoria to Campbell River
Description	Construction of dual 323.8 mm submarine pipeline, Delta to Nanaimo, compressor stations near Delta and Nanaimo and single transmission line (168.3 mm to 323.8 mm) between Victoria and Campbell River with associated distribution facilities. The project is dependent upon approval from the B.C. Government which is subject to negotiations on funding with the Federal Government.
Facilities	406 km transmission pipeline, 168.3 mm - 323.8 mm Compressor stations Distribution system
Status	Possible
Timing	Start - 1986 Completion - Fall 1987 (estimated)
Major Equipment	Mainline pipe: \$19 million Pipe coating materials: 6 million Compression and metering equipment: 6 million Propane-air plant: 3 million Structures: 2 million Construction equipment: 50 million
Employment	Permanent: 120 employees
Contact	C.A. Park, Burnaby, (604) 298-1311 B06-01

GAS TRANSMISSION AND DISTRIBUTION ON VANCOUVER ISLAND

VALUE: \$ 340 million Sponsor Inland Natural Gas Co. Ltd. 46 - Natural Gas Pipelines Class - Type British Columbia - Victoria to Location Campbell River Construction of a 286 km (steel) natural gas Description transmission pipeline feeding plastic and steel pipe gas distribution systems. The project is dependent on regulatory approvals of the construction of the main pipeline and the plans for natural gas distribution on the island. At present the hearings on the latter aspect have been cancelled pending confirmation of appropriate project funding. Status Possible Major Transmission pipelines Equipment (steel 114 mm to 400 mm): \$130 million Distribution pipelines (plastic and steel, 40 mm to 219 mm): 210 million Contact G.M.O. Solly, Vancouver, (604) 684-0484 J11-01

HARMAC PULP MILL MODERNIZATION

VALUE: \$

150 million

Sponsor

MacMillan Bloedel Limited

Class - Type

27 - Pulp Mill

Location

British Columbia - Nanaimo

Description

Installation of new pulping and bleaching lines to modernize facilities and modestly increase capacity. A decision to proceed with this project as planned depends on completion of financial arrangements currently being

negotiated.

Facilities

Pulping line for kraft pulp - capacity of 1,100

tonnes per day

Bleaching line for kraft pulp - capacity of 1,100

tonnes per day

Status

Possible

Timing

Start - 1986

Completion - 1988

Major

Equipment

New digesters, washers and screens: \$80 million New bleach plant: 40 million

Pollution abatement:

20 million

Employment

Permanent:

628 employees

Contact

J.G. Dickinson, Vancouver, (604) 661-8000 M11-01

	- 21 -
KUTCHO CREEK MI	INE VALUE: \$ 125 million
Sponsor	Esso Resources Canada Ltd.
Class - Type	61 - Copper/Zinc Mine
Location	British Columbia - 100 km east of Dease Lake
Description	Construction of an open pit and underground mine and mill complex.
Facilities	Mine: \$36 million Mill and surface facilities: 89 million Access road: 20 million
Participants	Esso Resources Canada Ltd. (50%) Sumac Mines Ltd. (50%)
Status	Possible
Timing	Start - 1987 Completion - 1990
Employment	Construction: 800 person years Permanent: 300 employees
Contact	K. Lowe, Vancouver, (604) 661-7100 E01-14

LEAD SMELTER MODERNIZATION AND EXPANSION

VALUE: \$

300 million

Sponsor Cominco Ltd.

Class - Type | 29 - Lead Smelting

Location | British Columbia - Trail

Description | Modernization and expansion of the existing

metallurgical operations at Trail.

Status Possible

Timing Start - 1987 Completion - 1988

Employment | Construction: 1,600 person years

Permanent: 550 employees

Contact J.E. Fletcher, Trail, (604) 364-4155

CO4-01

	- 23 -
LINE CREEK COAL	EXPANSION VALUE: \$ 250 million
Sponsor	Crows Nest Resources Ltd.
Class - Type	63 - Coal Mine
Location	British Columbia - 25 km north of Sparwood
Description	Construction of an additional 1.5 to 2 million tonnes per year open pit coal mine. Construction would depend on improved market conditions.
Status	Possible
Employment	Permanent: 400 employees
Contact	C.J.B. Bailey, Calgary, (403) 232-3111 C22-02

MONKMAN COAL PROJECT	
	VALUE: \$ 560 million
Sponsor	Petro-Canada Resources
Class - Type	63 - Metallurgical and Thermal Coal Mine
Location	British Columbia - 120 km southwest of Dawson Creek
Description	Development of a 3.5 million tons per year open-pit mine including coal handling and preparation facilities. Exploration and engineering work has been completed. Stage II approval from the British Columbia government was obtained in August 1981.
Facilities	Rail spurline: \$74 million
Participants	Petro-Canada Resources (50%) Canadian Superior Oil (33 1/3%) McIntyre Mines Ltd. (16 2/3%)
Status	Possible
Timing	Start - 1986 Completion - 1989
Major Equipment	Mine facilities and equipment: \$250 million Coal handling and preparation facilities, 1000 TPH: 190 million
Employment	Construction: 1,350 person years Permanent: 850 employees
Contact	S. O'Brien, Calgary, (403) 296-8000 P04-16

NITROGEN	FERTILIZER	PLANT
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VALUE: \$

500 million

Sponsor

Westcoast Transmission Company Limited

Class - Type

37 - Nitrogen Fertilizer Plant

Location

British Columbia - lower Mainland area

of greater Vancouver

Description

Using natural gas feedstock, the project will produce 1,800 tons per day of ammonia and 1,800 tons per day of urea. The output will be used to produce nitrogen fertilizer for Pacific Basin markets, principally on the west coast of the

USA.

Facilities

Dock:

\$30 million

Participants

Westcoast Transmission Company Ltd. - (33 1/3%)

Union Oil of California - (33 1/3%)

Chieftain Developments Co. Ltd. - (33 1/3%)

Status

Possible

Timing

Start - 1986

Completion - 1988

Major

Equipment

10 Blowers, 3,475 HP total

76 heat exchangers Boilers, 100,000 1bs/h

6 Compressors, 67,000 HP total 4 Steam turbines, 52,000 HP total

1 Gas turbine, 25,000 HP

Cooling water tower, 58,000 GPM

Power generator, 250 HP

85 Pumps

2 Heaters, 285 & 30 MMBTU/h

Employment

Construction: 1,300 person years

Permanent: 200 employees

Contact

R.T. Green, Vancouver, (604) 664-5519

W07 - 01

QUINSAM (COAL	MINE
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VALUE: \$

103 million

Sponsor Quinsam Coal Limited 63 - Thermal Coal Mine Class - Type British Columbia - 27 km west of Location Campbell River Description The property is to be developed in stages to reach production, by late 1988, of 1 million tonnes/year (t/a) of clean thermal coal. It is in the stage of receiving environmental permits. Full development is dependent on an increase in world coal prices. **Facilities** Open pit mine development, 1 million t/a: S 4.9 million Mine site services: 11.1 million Coal preparation plant: 8.5 million Barge loading & storage: 4.9 million Truck transportation system Barge hauling system at tidewater to move coal to a coal port

Participants

Brinco Ltd. (50%)

Weldwood of Canada Ltd. (50%)

Status

Engineering under way

Timing

Start - 1986

Completion - 1988

Major Equipment

Mobile equipment including

dragline and haul truck:

\$45 million

Employment

Construction: 88 person years

Permanent: 229 employees

Contact

T.E. Milner, Vancouver, (604) 688-2511

Q03-01

NNEL PROJECT VALUE: \$ 550 million
C.P. Limited
45 - Railway Transportation Industry
British Columbia - 45 miles east of Revelstoke
Construction of a tunnel to reduce the grade and increase the capacity of the line through the Rogers Pass area.
Mount MacDonald tunnel - 9.1 miles Mount Shaughnessy tunnel - 1.2 miles Ventilation system 5,600 lineal ft. of new railway bridges
Under construction/Under way
Start - 1982 Completion - 1988
Cementation Company (Canada) Ltd Ventilation shaft Manning-Kumagai Joint Venture - West portal of Mt. MacDonald and Mt. Shaughnessy tunnels Selkirk Tunnel Constructors - East portal of Mt. MacDonald tunnel Pitts Engineering Construction Ltd Viaduct and surface route Dawson Construction - Surface route Goodbrand Construction - Surface route
Construction: 3,500 person years Permanent: 8 employees
R.S. Tanaka, Calgary, (403) 266-9236 C18-01

SQUAMISH PULP OPERATION REBUILD

VALUE: \$

214 million

Sponsor Western Pulp Limited Partnership

27 - Bleached Kraft Pulp Mill Class - Type

Location British Columbia - Woodfibre, 12 km by ferry

and road to Squamish

Description Replacement or upgrading of the major facilities

> and equipment of an existing pulp mill. addition of facilities to unload raw material and load finished pulp into rail cars. Necessary environmental control facilities are included in

the project.

Facilities Chiphandling, screening and storage: \$10 million

> Upgraded bleaching plant: 26 million Pulp washing and screening: 11 million

> Black liquor evaporation & recovery: 48 million 15 million

Recausticizing & lime kiln:

Participants Western Pulp Inc. (0.1%)

Western Pulp Limited Partnership (99.9%)

Status Under construction/Under way

Start - Jan. 1985 Completion - Nov. 1986 Timing

Major Recovery boiler: \$13 million Equipment Evaporators: 5 million

10 million Piping:

H.A. Simons (International) Ltd. Contractors

Employment Construction: 700 person years

Permanent: 375 employees

Contact J. Howard, Vancouver, (604) 665-3821

W09-01

	- 29 -
TELKWA BITUMING	OUS COAL MINE VALUE: \$ 200 million
Sponsor	Crows Nest Resources Ltd.
Class - Type	63 - Coal Mine
Location	British Columbia - Smithers
Description	Construction of a bituminous coal mine.
Status	Possible
Contact	C.J.B. Bailey, Calgary, (403) 232-3111 C22-03

WESTERN CANADA LNG PROJECT VALUE: \$ 3,000 million			
	VIIIOUT V O,000 IIII		
Sponsor	Mobil Oil Canada Ltd./Petro-Canada Inc.		
Class - Type	07 - LNG Complex		
Location	British Columbia - Grassy Point and McLeod Lake		
Description	Construction of a liquefaction plant and terminal at which 510 MMCF/D of natural gas from British Columbia and Alberta will be liquefied and shipped to Japan in insulated ship containers for regasification and use as fuel by four large Japanese power utilities.		
Facilities	Natural gas pipeline (597 km, 610 mm dia.) Liquefaction plant for conversion of natural gas to liquid LNG Ship carriers, 125,000 cubic metres, (4 or 5)		
Participants	Mobil Oil Canada Ltd. (30%) Petro-Canada Inc. (30%) Westcoast Transmission Company Limited (15%) NIC Resources Inc. (15%) Suncor Inc. (10%)		
Status	Possible		
Timing	Start - 1986 Completion - 1989		
Major Equipment	Storage tanks & fabricated structures Gas pipeline Process piping systems Compressors Heat exchangers LNG ship carriers Fabricated structures NOTE: All but pipeline and structures involve cryogenic service.		
Employment	Construction: 3,200 person years (plant and Permanent: 150 employees pipeline)		
Contact	N.P. Blackburn, Calgary, (403) 268-7306 M03-10		

WESTMIN H-	·W	MINE
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	VALUE: \$ 198 million
Sponsor	Westmin Resources Limited
Class - Type	61 - Copper, Lead, Zinc Mine
Location	British Columbia - 95 km southwest of Campbell River
Description	Development of new underground mine and expansion of surface plant capacity to 3,000 tons per day.
Facilities	Mine development and related items: \$78 million Hydroelectric system, 8.5 MW: 22 million Mill including surface buildings: 73 million Tailings disposal & environmental: 18 million Dock and concentrate storage: 7 million
Status	Under construction/Under way
Timing	Start - March 1983 Completion - June 1985
Major Equipment	Flotation cells: \$1.5 million Compressors: 1.5 million Generator & Turbine: 1.3 million Hoists: 1.5 million Instrumentation (Modicom Control) 1.0 million
Contractors	Tonto-Lilly/Dynatec Mining - Mine & ventilation Regent Construction/Brittain Steel - Mill, conveyor, penstock Farmer Construction Ltd Tailings disposal
Employment	Construction: 840 person years Permanent: 550 employees
Contact	W.P. Stokes, Vancouver, (604) 681-2253 W06-02

- 32 -ACETIC ACID/VINYL ACETATE PLANT VALUE: \$ 550 million Sponsor Celanese Canada Inc. Class - Type 37 - Petrochemicals Location Alberta - Edmonton Description Possible construction of a plant to produce acetic acid and vinyl acetates. The project is currently on hold pending improved markets. Facilities Acetic acid unit, 365 kt/a Vinyl acetate monomer unit, 400 kt/a Status Possible Timing Start - 1987 Completion - 1990 Employment Construction: 1,920 person years Permanent: 148 employees J.K. Lambie, Edmonton, (403) 276-9333 Contact C16-01

ALBERTA GAS CHEMICALS - AMMONIA PROJECT

VALUE: \$ 100 million

Sponsor Alberta Gas Chemicals Ltd.

37 - Ammonia Plant Class - Type

Location Alberta - Medicine Hat

Description Construction of a 1,070 metric tonnes/day ammonia plant (360 kt/a). The ammonia will be produced from surplus hydrogen from an adjacent methanol plant while the nitrogen will be supplied from an air separation plant to be erected at the plant

site.

Facilities Air separation plant

Ammonia synthesis loop

Ammonia storage and loading system

Hydrogen purification unit

Status Engineering under way

Timing Start - 3rd quarter Completion - 1st quarter

> 1985 1987

Major Pressure vessels Equipment

Heat exchangers

Towers Pumps

Compressors

Instrumentation

Electrical switchgear

Structural steel

Employment Construction: 300 person years

Permanent: 50 employees

Contact A.E. Egglestone, Edmonton, (403) 482-6361

A20-01

AMOCO - ELK POINT OIL SANDS PROJECT

	VALUE: \$ 920 million
Sponsor	Amoco Canada Petroleum Company
Class - Type	07 - Heavy Oil Production
Location	Alberta - 165 km east of Edmonton, south of the town of Elk Point
Description	The project is designed to extract an estimated 24 million cubic metres of oilsands bitumen. Starting in 1984, Amoco undertook to drill 60 wells and construct steam injection and crude oil cleaning facilities. The expected production by the end of 1985 will be 475 cubic metres. Thereafter the scope of the project depends upon the technical and economic feasibility. If fully implemented, the project could produce an estimated 4,200 cubic metres of bitumen per day.
Facilities	Drill and complete wells: \$379 million Production treatment facility: 30 million Water treatment facilities: 22 million Steam injection facilities: 48 million Field facilities and piping: 412 million
Status	Engineering under way
Timing	Start - 1984 Completion - 1995
Contractors	Wright Technip Ltd.
Employment	Construction: 350 person years Permanent: 300 employees
Contact	P. O'Connell, Calgary, (403) 233-1313 A04-04

BRYAN MOUNTAIN BITUMINOUS COAL MINE

VALUE: \$ 200 million

Sponsor Crows Nest Resources Ltd.

63 - Coal Mine Class - Type

Location Alberta - Robb

Description Construction of a 1.5 million tonnes per year

bituminous coal mine dependent on improved market

conditions.

Status Possible

Employment Permanent: 400 employees

Contact C.J.B. Bailey, Calgary, (403) 232-3111

C22-04

CANSTAR (DAPHNE)	OIL (SANDS
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VALUE: \$ 4,000 million

Sponsor | Canstar Oil Sands Ltd.

Class - Type | 07 - 0il Sands Mining, Extraction,

and Upgrading

Location | Alberta - 70 km north of Fort McMurray

Description | Integrated mineable oil sands plant with capacity

of 72,000 barrels per day. The technical feasibility study has been completed. The commercial feasibility is currently under discussion with provincial and federal

governments.

Facilities Oil sands mine

Extraction plant

Upgrader

Utilities plant

Participants | Petro-Canada Inc. (50%)

Nova, An Alberta Corporation (50%)

Status Possible

Timing Start - 1988 Completion - 1993

Major Bucketwheel excavators

Equipment Conveyors

Pressure vessels

Furnaces Boilers

Small and large diameter pipe Structural steel and concrete

Pumps

Employment | Construction: 25,000 person years

Permanent: 2,200 employees

Contact T.F. Scott, Calgary, (403) 296-6051

C42-01

- 37 -			
CITY OF CALGARY	Y - NORTHWEST LRT PROJECT VALUE: \$ 100	million	
Sponsor	City of Calgary		
b poins of	of sargary		
Class - Type	45 - City Transit		
Location	Alberta - Calgary		
Description	Construction of a 6 km light rail f service the northwest quadrant of t facilitate the movement of people d Winter Olympics.	he city and to	
Facilities	5 Stations: Roads (not included in the above value):	\$8.0 million 7.0 million	
Participants	City of Calgary (25%) Province of Alberta (75%)		
Status	Engineering under way		
Timing	Start - 1985 Completion	1 - 1987	
Major	Rails & ties:	\$3.0 million	
Equipment	Sub-station:	2.0 million	
	Traction power hardware:	1.5 million	
	Signals:	2.0 million	
Employment	Construction: 3,500 person years Permanent: 10 employees		
Contact	J.H. Chaput, Calgary, (403) 268-153	6	
		C19-02	

COALSPUR THERMAL COAL DEVELOPMENT

VALUE: \$ 400 million

Sponsor

Denison Mines Ltd.

Class - Type

63 - Thermal Coal Mine

Location

Alberta - Northwestern Alberta 50 km

southeast of Hinton

Description

Development of a 4.2 million tonnes per year open pit mine and coal washing plant. A decision to proceed is contingent on improvement of world

prices for thermal coal.

Facilities

138 kV powerline from the Edson substation

Participants

Denison Mines Ltd. (65%)

Charbonnages de France Int'1. S.A. (15%)

Taiwan Power Co. (10%)

Denimil Energie und Mineral A.G. (10%)

Status

Possible

Major

Open pit mining shovels Trucks and rotary drills

Materials handling equipment

Coal working plant

Employment

Equipment

Construction: 1,400 person years

Permanent:

733 employees

Contact

W. Ahmed, Vancouver, (604) 669-2226

D04 - 02

COLD LAKE PRODUCTION PROJECTS, PHASES 1 TO 6

VALUE: \$

600 million

Esso Resources Canada Ltd. Sponsor Class - Type 07 - Heavy Oil Production Location Alberta - Cold Lake Description Phased development of Cold Lake oil sands leases to recover very heavy oil from wells using new drilling and production techniques, including steam injection. Each phase is expected to produce 1,500 cubic metres per day (9,500 b/d) of bitumen. Facilities Central plant - steam plant water treatment, tankage: \$300 million Field facilities - drilling. 300 million satellites, pipelines: Status Under construction/Under way Start - 1983 Completion - 1987 Timing Contractors Delta/Kenting - Central processing, engineering and construction (Phase 1 & 2) Delta/Dillingham - Central processing, engineering and construction (Phase 3 & 4) Employment 1,200 person years (peak in 1985) Construction: 360 employees Permanent: Contact L.H. Pakaluk, Calgary, (403) 237-3253 E01-06

VALUE: \$ 140 million
VALUE VA. V 2 1 1 0 11 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Province of Alberta
45 - Urban Transit
Alberta - Edmonton, from downtown to University
Three-stage development of an existing system, potentially five stations are involved.
Province of Alberta (75%) City of Edmonton (25%)
Engineering under way
Start - 1985 Completion - 1993
R.A. Heise, Calgary, (403) 428-2768 E08-01

EXPANSION OF NOVA'S GAS PIPELINE NETWORK IN ALBERTA VALUE: \$ 882 million

Sponsor Nova, An Alberta Corporation

Class - Type | 46 - Natural Gas Pipeline

Location Alberta

Description Expansion of gas transmission pipeline network in Alberta. The ten year expansion plan is approved

on a year by year basis in line with current

company priorities.

Status Under construction/Under way

Timing Start - 1984 Completion - 1993

Major Linepipe: \$360 million
Equipment Compression equipment: 57 million

Metering equipment: 33 million

Contact D.C. Olafson, Calgary, (403) 290-7321

NO4-02

GENESEE GENERATING STATION PHASE 1

	VALUE: \$ 524 million
Sponsor	Edmonton Power
Class - Type	49 - Thermal Power Station
Location	Alberta - 50 km west-southwest of Edmonton
Description	Construction of an 800 MW thermal generating station.
Status	Under construction/Under way
Timing	Start - 1982 Completion - 1989
Major Equipment	2 steam generators, 400 MW: \$134 million Turbine generators: 65 million Electrical equipment: 73 million Mechanical equipment: 110 million High pressure piping: 12 million
Contractors	Canron - Structural steel North American Construction Ltd Earthwork Combustion Engineering - Steam generation GEC Canada Ltd Turbine generation Brown & Root - High pressure piping
Employment	Construction: 2,100 person years Permanent: 179 employees
Contact	K. Warren, Edmonton, (403) 428-3470 E04-01

- 43 -			
HEAVY LIFT AIRS	SHIP PROJECT VALUE: \$ 300 million		
Sponsor	Sutherland Airship Corporation		
Class - Type	45 - Transportation		
Location	Alberta - Red Deer		
Description	Two phase development of the airship and its manufacturing procedures, followed by construction of an assembly facility with annual capacity to produce 10 airships, valued at \$30 million each.		
Participants	Merchant banking and design expert partners, not yet identified.		
Status	Possible		
Timing	Start - 1986 Completion - 1990's		
Employment	Construction: 1,500 person years Permanent: 700 employees		
Contact	R. Sutherland, Edmonton, (403) 438-7408 S35-01		

JUDY CREEK MISCIBLE FLOOD PROJECTS (A&B Pools)

VALUE: \$ 102 million

	VALUE: \$ 102 million
Sponsor	Esso Resources Canada Ltd.
Class - Type	07 - Non-Conventional Oil Development
Location	Alberta - Swan Hills, 200 km northwest of Edmonton
Description	Modification and construction of field facilities and well reactivation using a common injection system to produce ethane based miscible floods.
Facilities	Extraction plant: \$23 million Pipeline/storage for ethane transportation: 50 million
Participants	Esso Resources Canada Ltd. Petro-Canada Inc. (less than) Dekalb Petroleum Corp. (over) Denison Mines Canada Ltd. Canadian Reserve Oil & Gas Murphy Oil Co. (over) Suncor (less than) 18 16% 16% 2% Suncor (less than) 3%
Status	Under construction/Under way
Timing	Start - 1984 Completion - 1986
Major Equipment	Pipe: \$16 million Well material: 7 million Pumps: 2 million Compressors: 2 million
Employment	Construction: 495 person years Permanent: 7 employees
Contact	W.W. Boucher, Calgary, (403) 237-4917 E01-07

KEEPHILLS GENERATING STATION, UNITS 3 & 4

VALUE: \$ 627 million

Sponsor TransAlta Utilities Corp.

49 - Electrical Power Generation Class - Type

Location Alberta - west of Edmonton

Description Construction of an 800 MW coal fired generating

station.

Status Possible

Timing Start - 1988 Completion - 1995

Major 2 Coal fired steam boilers, 400 MW

Equipment Turbine generators

Electrical and mechanical equipment

Employment Construction: 1,900 person years

> Permanent: 35 employees

Contact E.R. Simpson, Calgary, (403) 267-3640

T10-02

MCLEOD RIVER COAL	L PRUJECT
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VALUE: \$

325 million

Sponsor Manalta Coal Ltd.

Class - Type | 63 - Coal Mine

Location | Alberta - Hinton

Description | Construction of a 4 million tonnes per year

thermal coal mine. Production will be for export

to Japan. The project received Alberta

Government approval but construction is dependent

on market conditions.

Facilities | On site infrastructure

Participants | McLeod River Coal Ltd. (70%)

Electric Power Development Co. Ltd. of Japan

(30%)

Status Possible

Major Mining equipment

Equipment

Fauinment

Employment Construction: 1,200 person years

Permanent: 300 employees

Contact R.M. Shaneman, Calgary, (403) 294-5311

MO5-01

VALUE: \$ 235 million
Manalta Coal Ltd.
63 - Coal Mine
Alberta - Hinton
Construction of this 2 million tonnes per year thermal coal mine depends on positive market developments.
Mercoal Minerals Ltd. (80%) Idemitsu Kosan Co. Ltd. (20%)
Possible
Construction: 900 person years Permanent: 600 employees
R.M. Shaneman, Calgary, (403) 294-5311 M05-02

NIPISI MISCIBLE FLOOD

VALUE: \$

160 million

Sponsor

Amoco Canada Petroleum Company

Class - Type

07 - Enhanced Oil Recovery

Location

Alberta - Nipisi Lake, 88 km north of

the town of Slave Lake

Description

Expansion of the Miscible Flood, an enhanced oil recovery project. The project is divided into 3 stages starting in 1985 and scheduled for completion in 1990. The staged expansion of Miscible Flood scheme will result in an incremental oil production of 14.8 million cubic

metres.

Facilities

Injection and production wells: \$84 million 45 million

Plant and Field Facilities:

Pipeline:

20 million

Participants

Amoco Canada Petroleum Co. (15%)

Chevron Canada Petroleum Ltd. (15%)

Petro-Canada (14%)

Texaco Canada Resources (13%) Shell Canada Resources (12%)

Royal Trust (9%)

Mobil Oil Canada Ltd. (8%)

Others (14%)

Status

Engineering under way

Timing

Start - 1985

Completion - 1990

Major

Equipment

Pipe and associated equipment: \$12.0 million Natural gas compressors:

Natural gas liquid pumps:

4.0 million

1.5 million

Contact

P. O'Connell, Calgary, (403) 233-1313

A04-05

PEACE RIVER EXPANSION PROJECT

200 million

S06-11

VALUE: \$ Shell Canada Resources Limited Sponsor Class - Type 07 - Heavy Oil Production Location Alberta - 55 km northeast of the town of Peace River Description Shell Canada Resources will expand its Peace River In-situ Project (PRISP) from an average production rate of 200 cubic metres to 1600 cubic metres per day. This expansion will be located adjacent to and be integrated with the existing pilot project. Facilities Field development - 215 wells: \$65 million Plant facilities/tank farm: 42 million Water treatment & steam generation: 4 million Water disposal: 5 million Field facilities: 40 million Shell Canada Resources Ltd. (50%) Participants Shell Explorer Limited (50%) Status Engineering under way Start - July 1985 Completion - Nov. 1986 Timing Major Casing and tubing: \$10 million Equipment Steam generators: 4 million Distributed control system: 3 million Pump jacks: 10 million Pressure vessels: 2 million 3 million Pumps: Field pipe and valves: 16 million 350 person years Employment Construction: Permanent: 100 employees F. Klein, Calgary, (403) 232-2526 Contact

- 50 -			
POLYETHYLENE PI	ANT VALUE: \$ 105 million		
Sponsor	Dow Chemical Canada Inc.		
Class - Type	37 - Polyethylene Plant		
Location	Alberta - Fort Saskatchewan		
Description	Construction of a polyethylene plant with a capacity of 118 kilo tonnes per year using Dow technology.		
Status	Under construction/Under way		
Timing	Start - 1983 Completion - 1985		
Employment	Construction: 320 person years Permanent: 80 employees		
Contact	D. Aylard, Fort Saskatchewan, (403) 998-8580 D08-01		

	31		
SHEERNESS POWER		700 million	
Sponsor	Alberta Power Ltd.		
Class - Type	49 - Electric Generation		
Location	Alberta - 20 km south of Hanna		
Description	Construction of a thermal power station of 750 MW comprised of 2 units. Unit 1 is to be commissioned in 1985 and unit 2 in 1990. A new substation costing \$19 million is also required but is not part of this project.		
Facilities	Two 375 MW thermal power units		
Participants	Alberta Power Ltd. (50%) TransAlta Utilities Corp. (50%)		
Status	Under construction/Under way		
Timing	Start - 1981 Completi	ion - 1990	
Major	Turbine and generators:	\$ 46 million	
Equipment	Power boilers:	117 million	
	Precipitators:	23 million	
	Piping:	20 million	
	Structural steel:	52 million	
	Coal plant:	13 million	
	Ash plant:	23 million	
Contractors	C.E. Canada Ltd Boiler Hitachi - Turbine generator Flakt - Precipitator Dominion Bridge - Structural stee British Steel - High pressure pi		
	briefsh beeer high pressure pri	hr 118	
Employment	Construction: 2,300 person years Permanent: 130 employees	S	
Contact	V. Stang, Edmonton, (403) 420-748	36	
		A13-03	

SLAVI	RI	VER	HYDR	0

VALUE: \$

2,500 million

Sponsor

Alberta Power Ltd.

Class - Type

49 - Hydroelectric Generation

Location

Alberta - Extreme northeast of Alberta

Description

Construction of a 1,800 to 2,000 MW hydro plant, depending on the site chosen, with a 500 kV transmission line to Edmonton. Alternative sites near Fort Smith on the Slave river in northeast Alberta and the Northwest Territories are being considered. Technical feasibility and pre-investment studies have been done. The construction start date depends on the outcome of discussions with government regulatory agencies.

Facilities

Site related (camp, etc.):

\$380 million

Civil (power house, dam, spillways and intake):

940 million

Participants

Likely participants are the Alberta Government, TransAlta Utilities Corporation and Alberta Power Limited although participation is not yet

determined.

Status

Possible

Timing

Start - 1990

Completion - 1997

Major

Electrical & mechanical equipment: \$430 million

Equipment

Transmission lines:

600 million

Employment

Construction: 13,000 person years 146 employees

Permanent:

Contact

R.V. Baer, Edmonton, (403) 420-7667

A13-01

	SYNCRUDE	DEBOTTLENECK	PROJECT
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	VALUE: \$ 156 million
Sponsor	Syncrude Canada Ltd.
Class - Type	07 - Non-Conventional Crude Oil Development
Location	Alberta - Mildred Lake, 45 km north of Fort McMurray
Description	Debottleneck existing facilities to increase capacity from 108,225 b/d to 120,800 b/d. The project is largely completed.
Facilities	Mining: \$31 million Extraction: 13 million Upgrading: 94 million Utilities: 13 million
Participants	Esso Resources Canada Ltd. (25%) Petro-Canada Inc. (17%) Alberta Oil Sands Equity (16.74%) Canadian Occidental Petroleum Ltd. (13.23%) Alberta Energy Company Ltd. (10%) Gulf Canada Resources Inc. (9.03%) Others (9%)
Status	Under construction/Under way
Timing	Start - 1981 Completion - 1986
Major Equipment	Compressors, pumps and drivers: \$ 4 million Towers/columns: 1 million Heaters: 3 million Mining equipment: 12 million
Contractors	Delta Engineering - Engineering & procurement Stearns Catalytic - Prime contractor
Employment	Construction: 176 person years
Contact	R. Bullock, Fort McMurray, (403) 790-5364 S05-01

SYNC	RUDE	EXPA	NSION

VALUE: \$

707 million

Sponsor Syncrude Canada Ltd.

Class - Type | 07 - Non-Conventional Crude Oil Development

Location | Alberta - Mildred Lake, near Fort McMurray

Description

Increase synthetic crude production by reducing secondary upgrading interference and adding or modifying upgrading capability, mining capacity,

extraction facilities, and hydrocrackers and hydrotreaters and associated sulphur recovery and

sour water treatment plants.

Facilities Mining: \$27 million

Extraction: 43 million Upgrading: 475 million

Participants Esso Resources Canada Ltd. (25%)

Petro-Canada Inc. (17%)

Alberta Oil Sands Equity (16.74%)

Canadian Occidental Petroleum (13.23%)

Others (28.03%)

Status Engineering under way

Timing Start - 1985 Completion - 1987

Major Piping: \$42.3 million

Equipment Electrical: 13.4 million Instrumentation: 21.1 million

Mine equipment: 26.5 million

Upgrading equipment: 85.6 million

Contractors | Kilborn Kellogg Rust Ltd. - Field management

Employment Construction: 6,900 person years

Permanent: 400 employees

Contact P. Hedderly, Fort McMurray, (403) 790-8925

S05-02

	- 55 -
WOLF LAKE 2	VALUE: \$ 130 million
Sponsor	BP Resources Canada Limited
Class - Type	07 - Heavy Oil Production
Location	Alberta - Wolf Lake
Description	Construction of an in-situ steam stimulation, heavy oil production project. Oil production will be approximately 1,500 cubic metres per day.
Facilities	Steam generation and product
1 40111110	treatment: \$45 million
	Field facility: 20 million
Participants	BP Resources Canada Limited (50%) Petro-Canada (50%)
Status	Engineering under way
Timing	Start - June '86 Completion - Aug. '87
Employment	Construction: 270 person years Permanent: 70 employees
Contact	R.J. Peabody, Calgary, (403) 237-1463 B08-07
	·

BREDENBURY POTASH MINE

VALUE: \$

700 million

Sponsor

Potash Corporation of Saskachewan Mining Ltd.

Class - Type

62 - Potash Mine

Location

Saskatchewan - Bredenbury

Description

Development of a 3.2 million tonnes per year, grass roots, potash mining and milling complex. The project is suspended pending improved potash

market conditions.

Facilities

Two shafts

Underground development, mining and maintenance Surface milling and refining, 3.2 million t/a

Maintenance and product loading Tailings and brine disposal area

Status

Possible

Major

Hoists Conveyors

Equipment

Crushing and grinding equipment
Flotation or separation equipment

Dryers Centrifuges Cyclones Thickeners

Compactors and material handling equipment

Employment

Construction: 925 person years Permanent: 450 employees

Contact

D.J. Irvine, Saskatoon, (306) 664-5993

	- 5/ -
CAN-AM PIPELINE	PROJECT VALUE: \$ 256 million*
Sponsor	Foothills Pipe Lines (Yukon) Ltd.
Class - Type	46 - Natural Gas Pipeline
Location	Saskatchewan - Monchy, Sask. and in various U.S. states between Montana and Pennsylvania
Description	Expansion and interconnection of various pipelines to provide for a large increment of Canadian gas to the north central and northeastern U.S.A. Canadian suppliers will be able to pursue opportunities in the U.S.A. This project is competing for regulatory approval in Canada and the U.S.A. with the TransCanada Pipelines Export Facilities project (see the Interprovincial section). (*NOTE: The Canadian portion is \$256 million while the U.S.A. portion is \$1,294 million.)
Participants	Foothills Pipe Lines (Yukon) Ltd. Northern Border Pipeline Co.) Pipeline companies ANR Pipeline Co.) in the U.S.A. Ohio Interstate Pipeline Co.)
Status	Possible
Timing	Start - 1986 Completion - 1987
Major Equipment	Construction equipment Main linepipe Coating and foundation materials Valves and fittings Compression, metering and other equipment
Employment	Construction: 520 person years) Canadian portion Permanent: 12 employees) only
Contact	H.N.E. Hobbs, Calgary, (403) 294-4111 F04-03

CIGAR LAKE URANIUM MINE AND MILL

350 million VALUE: \$ Cigar Lake Mining Corporation Sponsor 61 - Uranium mine Class - Type Location Saskatchewan - 115 km northeast of the Key Lake uranium mine Description Development of a new uranium mine. Participants Saskatchewan Mining Development Corp. (50.75%) Cogema Canada Ltd. (32.625%) Idemitsu Uranium Exploration Canada Ltd. (12.875%)Corona Grande Exploration Corp. (3.751%) Possible Status Start - 1989 Completion - 1992 Timing **Employment** Construction: 2,500 person years Permanent: 400 employees Contact G.A. Peebles, Saskatoon, (306) 665-2628 C39-01

COLLINS BAY MINE - ELDOR MINES

VALUE: \$

100 million

Sponsor Eldorado Resources Ltd.

Class - Type | 61 - Uranium Mine

Location Saskatchewan - Rabbit Lake

Description Development of a 15 million kg uranium ore deposit. Construction is approximately 70%

complete and some units are being commissioned.

Facilities Tailing disposal, effluent treatment and modified

process plant facilities.

Status Under construction/Under way

Timing Start - mid 1983 Completion - late 1985

Contractors | Eldorado Resources Ltd. - Process engineering

Lambrian Engineering Ltd. - Mechanical,

structural & electrical

Miron Construction - Construction labour

Employment Construction: 300 person years

Permanent: 350 employees*

* (continuing rather than new jobs)

Contact A.R. Morrish, Saskatoon, (306) 382-0505

E05-04

KALTUM CHEMICALS POTASH MINE EXPANSION

VALUE: S

100 million

K07-01

Sponsor PPG Canada Inc. Class - Type 62 - Potash Mine Location Saskatchewan - Belle Plaine, 50 km west of Regina Description Expansion of the Belle Plaine solution mining and refining facility by 25% to annual production rate of two million tons per year. Facilities Primary separation, crystallization, dewatering and drying Refining, compacting and screening Mining and power distribution Under construction/Under way Status Start - 1984 Timing Completion - 1987 Piping, carbon steel, FRP alloy Major Material handling equipment Equipment Alloy construction centrifugal pumps Electrical material Valves Electric motors and gear reducers Contractors Stearns-Catalytic Ltd. - Construction, manpower and engineering Empire Iron Works - Structural steel Dominion Bridge - Structural steel Dominion Construction - Building additions Graham Construction - Foundations P. Morsky Construction - Earthwork Employment Construction: 450 person years Permanent: 30 employees Contact N.B. Beug, Regina, (306) 757-0131

LANIGAN PHASE II EXPANSION				
IMITOMI TIMOLI	VALUE: \$ 402 million			
Sponsor	Potash Corporation of Saskatchewan Mining Ltd.			
*	,			
Class - Type	62 - Potash Mine			
Location	Saskatchewan - Lanigan/Guernsey			
Description	Installation of new mining machinery and additional refinery and conveyor systems to increase mine capacity from 1.2 million tonnes per year to 3.15 million tonnes per year. Part			
	of complex is in operation, start-up is expected in early 1986.			
Facilities	Coarse ore storage: \$ 4.0 million Mill structure: 87.6 million Interbuilding galleries: 10.5 million Compaction facilities: 9.5 million			
	Product storage: 9.0 million			
Status	Under construction/Under way			
Timing	Start - 1980 Completion - early 1986			
Major	Marietta 4 rotor mining machines: \$40.0 million			
Equipment	Underground conveyor systems: 20.0 million			
	Sieve bend screens: 2.5 million Compactors: 4.4 million			
	Compactors: 4.4 million			
Contractors	Kilborn - Engineering, management & construction Dominion Bridge - Supply & erect structural steel Canped Mechanical Ltd Mechanical installation Brown and Root - Mechanical installation			
Employment	Construction: 1,100 person years Permanent: 350 employees			
Contact	D.J. Irvine, Saskatoon, (306) 664-5993			
	P15-02			

MIDWEST URANIUM	1 MINE VALUE: \$ 135 million
Sponsor	Esso Resources Canada Ltd.
Class - Type	61 - Uranium Mine
Location	Saskatchewan - Midwest Lake
Description	Construction of a new uranium mine and mill complex. The mine is a high grade uranium deposit with potential for extraction by open pi or underground methods. The currently favoured approach is underground mining, with off-site processing at a rate of 3 million pounds per year.
Facilities	Mine: \$50 million Surface facilities: 65 million Ore handling: 20 million
Participants	Esso Resources Canada Ltd. (50%) Numac Oil & Gas (25%) Bow Valley Industries (12.5%) Mink Mining and Midwest Mining (12.5%)
Status	Possible
Timing	Start - 1989 Completion - 1993
Employment	Construction: 1,200 person years Permanent: 230 employees
Contact	K. Lowe, Vancouver, (604) 661-7100

	- 63 -			
NEWGRADE ENERGY - REGINA HEAVY OIL UPGRADER VALUE: \$ 450 million				
Sponsor	Federated Cooperatives			
Class - Type	07 - Heavy Oil Upgrading			
Location	Saskatchewan - Regina			
Description	Construction of a heavy oil upgrader integrated with existing oil refinery with a capacity of 50,000 barrels per day.			
Facilities	Hydrogen plant Atmospheric residual desulphurization unit Sulphur recovery unit Hydrotreating unit Sour water treater Tankage and utilities			
Participants	Federated Cooperatives (50%) Province of Saskatchewan (50%)			
Status	Engineering under way			
Timing	Start - Fall 1985 Completion - Fall 1988			
Major Equipment	Pressure vessels Heat exchangers Compressors and blowers Furnaces Tanks, piping and valves Towers Buildings Computers Pumps Coolers			
Employment	Construction: 2,800 person years Permanent: 80 employees			

L. Court, Regina, (306) 424-2484

F14-01

Contact

NIPAWIN HYDROELECTRIC STATION

VALUE: \$

500 million

Sponsor Saskatchewan Power Corporation

Class - Type | 49 - Electrical Generating Station

Location Saskatchewan - Nipawin

Description | Construction of a 252 MW, 3 unit hydraulic power

station including 2 dams on the Saskatchewan

river and a power house with spillway.

Facilities | Switching station

Tranmission lines

Status Under construction/Under way

Timing Start - 1981 Completion - 1986

Major 3 Hydraulic turbine generators, 84 MW

Equipment | Electrical and mechanical equipment

Contractors | Kace - General civil contract

Canadian General Electric - Supply and install

generators

Marubeni Ltd. - Supply and install turbines

Employment Construction: 1,500 person years

Permanent: 20 employees

Contact J. Dibson, Nipawin, (306) 862-9893

S26-01

RIVERHURST	EAST	IRRIGATION	PROJECT

VALUE: \$

150 million

Sponsor PFRA & Saskatchewan Dept. of Agriculture

Class - Type | 90 - Agricultural Irrigation Project

Location | Saskatchewan - West of Moose Jaw

Description | Irrigation of 86,000 acres of farmland by pumping

and distribution through gravity canals and

laterals to sprinklers.

Facilities | Main canal and laterals lined with membrane

Pressing stations Steel discharge pipes

Participants | Federal and Provincial governments

Status Possible

Employment | Construction: 1,300 person years

Permanent: 30 employees

Contact H.M. Hill, Regina, (306) 359-5081

P13-03

SASKATCHEWAN 600 MW THERMAL POWER PROJECT

VALUE: \$

706 million

Sponsor Saskatchewan Power Corporation

Class - Type 49 - Electrical Power Generation

Saskatchewan - Location not Location

established.

Description Construction of a 600 MW, two unit lignite coal

fired power station.

Facilities Buildings and structures: \$ 78 million

> Boiler plant: 10 million Turbine plant: 116 million

> Electrical auxiliaries: 42 million 186 million

Mechanical auxiliaries:

Status Possible

Timing Start - 1987 Completion - 1994

Two coal fired steam boilers, 300 MW Major

Equipment Turbine generators

Electrical and mechanical equipment

Employment Construction: 980 person years

Permanent: 160 employees

R.H. Hamilton, Regina (306) 566-2988 Contact

SASKATCHEWAN	POWER	-	NATURAL	GAS	DISTRIBUTION P		PROGRA	PROGRAM	
					VALUE:	Ś	400	mi1	

SASKATCHEWAN PO	DWER - NATURAL GAS DISTRIBUTION PROGRAM VALUE: \$ 400 million
Sponsor	Saskatchewan Power Corporation
Class - Type	46 - Natural Gas Distribution
Location	Saskatchewan - covers much of the province
Description	The program, started in 1983, is intended to extend natural gas service to approximately 25,000 farms and 10,000 residential customers in rural communities over a ten year period.
Facilities	Compression stations (shared): \$ 1 million Steel pipelines: 80 million Polyethylene pipelines: 310 million Regulator stations: 4 million Storage caverns (shared): 5 million
Participants	Saskatchewan Power Corporation (76%) Customer contribution (16%) Department of Mines and Resources (8%)
Status	Under construction/Under way
Timing	Start - 1983 Completion - 1992
Major	Steel pipe: \$ 28.0 million
Equipment	Plastic pipe: 140.0 million
	New furnaces & appliances purchased as a result: 6.7 million
Contractors	Approximately sixty contracts have been awarded for engineering and construction throughout the province.
Contact	B.A. Stewart, Regina, (306) 556-2480
	\$26-06

LIMESTONE GENERATING STATION

VALUE: \$ 1,245 million

Sponsor Manitoba Hydro

49 - Hydroelectric Generation Class - Type

Location Manitoba - Nelson River near Gillam

Description Construction of a 1,230 MW 10 unit hydroelectric station. Installation of project infrastructure

started in 1975 and is largely completed.

Additional work on some camp, townsite and other areas costing approximately \$15 million might be

needed.

Facilities Powerhouse: \$531 million

> 28 million Earth fill dam and dykes: 124 million

Spillway:

Status Engineering under way

Timing Start - 1985 Completion - 1990

10 Hydroelectric turbines: Major \$ 79 million

Equipment 10 Generators: 90 million Intake gates: 42 million

> Spillway gates: 24 million Power transformers: 11 million

Employment Construction: 6,000 person years (peak)

> 30 employees Permanent:

Contact D.R. Dawson, Winnipeg, (204) 474-3714

M07-01

NELSON RIVER BIPOLE II, STAGES 2 AND 3

VALUE: \$ 127 million

Sponsor Manitoba Hydro

49 - Electric Transmission Class - Type

Location Manitoba - Nelson River to Winnipeg

Description Installation of high voltage direct current conversion equipment for transmission of 900 MW at 500 kV DC from Henday Station on the Nelson

river to Dorsey Station, 9 km from Winnipeg.

Status Under construction/Under way

Timing Start - 1979 Completion - 1986

Major HV rectifier equipment

Power transformers Equipment Protection equipment

Transmission line, 500 miles

Employment Construction: 525 person years

S.M. Naqvi, Winnipeg, (204) 474-3854 Contact

M07-02

NELSON	RIVER	BIPOLE	III,	STAGE	1
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	VALUE: \$ 677 million
Sponsor	Manitoba Hydro
Class - Type	49 - Electric Power Transmission
Location	Manitoba - Nelson River to Winnipeg
Description	Installation of high voltage direct current conversion equipmment for transmission of 900 MW at 250 kV DC from Henday Station to Riel Station, 1 km east of Winnipeg.
Facilities	AC equipment installations: \$ 20 million DC equipment installations: 380 million Transmission line (915 km): 237 million Communications: 5 million VAR compensation: 35 million
Status	Engineering under way
Timing	Start - Apr. 1988 Completion - Mar. 2001
Major Equipment	Thyristor valves, control & protection: \$ 50 million Converter buildings: 20 million DC switchyard & line smoothing: 10 million Converter transformers: 24 million AC & DC filters: 10 million Synchronous condensers: 25 million AC switchyards: 11 million HVDC transmission line: 110 million
Employment	Construction: 3,200 person years Permanent: 50 employees
Contact	S.M. Naqvi, Winnipeg, (204) 474-3854 M07-03

|--|

THOMPSON OPEN	PIT NICKEL MINE VALUE: \$ 100 million
Sponsor	INCO Limited
Class - Type	61 - Nickel Mine
Location	Manitoba - Thompson
Description	Construction of an open pit mine including services and equipment.
Facilities	Crushing facilities Service Buildings
Status	Under construction/Under way
Timing	Start - 1982 Completion - 1986
Contractors	Kesmark Ltd., (Marine Division) - Dredging of overburden
Employment	Construction: 450 person years Permanent: 75 employees
Contact	K.L. Somerville, Thompson (204) 677-5211 J07-02

ALGOMA STEEL PLANT IMPROVEMENTS

VALUE: \$ 238 million

Sponsor

Algoma Steel Corporation Limited

Class - Type

29 - Steel Mill

Location

Ontario - Sault Ste. Marie

Description

Construction of new facilities to cast rounds of 220 and 270 mm in diameter and blooms of 267 X 320 mm, new facilities for ladle refining to produce ultra clean steels, and modernization of the rail mill facilities to meet stringent demands for material integrity, straightness, greater length and head hardness.

Facilities

Power substations

Rail head hardening facility Rail finishing facilities

Status

Engineering under way

Timing

Start - 1985

Completion - 1988

Major

Equipment

Metallurgical equipment

Bloom/round casting equipment

Employment

Construction: 430 person years

Contact

W. Locke, Sault Ste. Marie, (705) 945-2770

A05-05

	ALGOMA	STEEL	SEAMLESS	TUBE	MILL
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VALUE: \$

350 million

Sponsor Algoma Steel Corporation Limited

29 - Steel Mill Class - Type

Location Ontario - Sault Ste. Marie

Description Construction of additional seamless tube mill facilities to ultimately produce 300,000 tons per year of casing, tubing, and other oil country

goods in size ranges from 2 to 7 inches. The existing tube mill (Mill No. 1) will also be

upgraded.

Facilities Water treatment plant

Pipe finishing and loading facilities

Status Under construction/Under way

Start - 1985 Completion - 1987 Timing

Reheat furnace Major

Equipment Piercing mill

Mandrel mill

Stretch reducing mill Additional rail track

Contractors Fenco Engineers Inc. - Engineering, construction

& project management

Stone and Webster - Civil works

Employment Construction: 500 person years

Permanent: 300 employees

Contact W. Locke, Sault Ste. Marie, (705) 945-2770

A05-01

BRAMPTON CAR ASSEMBLY PLANT AND RELATED FACILITIES 764 million VALUE: \$

Sponsor American Motors Canada Inc.

90 - Automobile Manufacturing Plant and Class - Type Related Satellite and Supplier

Facilities

Location Ontario - Brampton

Description Construction of an automobile plant with North American product mandate to manufacture a new line of intermediate size cars. The plant would

> have a capacity of 200,000 cars per year. The total investment is made up of \$422 million for the plant itself and \$342 million for tooling, land, satellite and supplier facilities and

related engineering costs.

Participants The federal and provincial governments will

invest up to \$121 million in the plant on a 50:50

basis.

Status Under construction/Under way

Timing Start - 1984 Completion - 1987

Ma jor

Automated manufacturing and robotics systems. Equipment

Employment Construction: 1,400 person years 3,000 employees Permanent:

Contact S.R. Perkins, Detroit, (313) 827-7977 A23-01

	- 75 -
BRUCE 'B' NUCL	EAR GENERATING STATION VALUE: \$ 4,887 million
	7 7 7 7 WILLIAM
Sponsor	Ontario Hydro
Class - Type	49 - Electrical Generating Station
Location	Ontario - Port Elgin
Description	Construction of a 3,124 MW, 4 unit nuclear power station.
Facilities	Nuclear systems: \$673 million Turbine generators: 610 million Electrical systems: 252 million Powerhouse: 171 million
Status	Under construction/Under way
Timing	Start - 1976 Completion - 1987
Contractors	Canadian General Electrical - Turbine generators Babcock and Wilcox - Steam generators Canron - Structural steel
Employment	Construction: 18,323 person years Permanent: 600 employees
Contact	R.A. Brown, Toronto, (416) 592-5097 002-02

	ST SLAB	PROGRA	M
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VALUE: \$

608 million

Sponsor

Dofasco Inc.

Class - Type

29 - Steel Mill

Location

Ontario - Hamilton

Description

Installation of a system to permit uninterrupted production from molten state to coiled product including improved chemical, physical and surface properties. Detailed engineering is under way and construction is approved to proceed but has not started.

Facilities

Slab caster, 2.4 million tons/year, slab reheat furnaces and modifications to the basic oxygen furnace in No. 2 steelmaking shop.

Status

Engineering under way

Timing

Start - 1985 Completion - 1987

Major

Two strand continuous

Equipment

casting machine: \$263 million

Two slab reheat furnaces

and slab handling equipment:

196 million

Two hot rolling strands,

a second downcoiler:

87 million 62 million

Cranes, turntables, ladles etc.:

Contractors

Dravo - Consultation, caster facility Canadian General Electric - Engineering consultation, drive and controls

Acres Engineering - Consultation, construction of

furnaces/rolling and coiling.

Employment

Construction: 1,500 person years Permanent: 100 employees

Contact

B.J. Ciprietti, Hamilton, (416) 544-3761

D06-02

C-I-L AMMONIA PLANT EXPANSION

VALUE: \$ 220 million

Sponsor

C-I-L Inc.

Class - Type

37 - Ammonia Plant

Location

Ontario - Sarnia

Description

Construction of a new ammonia unit to increase plant capacity by 373,000 tonnes per year to

723,000 tonnes per year.

Status

Under construction/Under way

Timing

Start - 1982

Completion - 1985

Contractors

Uhde GmBH - Battery limits design and

construction

C-I-L Engineering Dept. - Offsites design and

procurement

Bechtel Canada/C-I-L Inc. - Construction

management

Employment

Construction: 450 person years

Permanent:

20 employees

Contact

G. Dutton, North York, (416) 229-7000

C07-02

DARLINGTON GENERATING STATION

VALUE: \$ 5,943 million

Sponsor Ontario Hydro

Class - Type | 49 - Electrical Generating Station

Location Ontario - Bowmanville

Description | Construction of a four reactor nuclear generating

station with a total net capacity of 3,524 MW.

Facilities | Reactor building/fueling

facilities: \$408 million

Heat power cycle systems: 278 million
Electric power systems: 266 million
Primary heat transport system: 253 million

Reactor and moderator system: 253 million

Status Under construction/Under way

Timing Start - 1977 Completion - 1992

Major Nuclear reactors

Equipment Steam turbine generators

Heat transport

Fuel handling equipment
Emergency power gas turbines

Power substation

Contractors | Brown Boveri - Turbine generators

Canadian General Electric - Design, development

and testing of fuel

Dominion Bridge - Structural steel/reactor vessel

Vickers/Babcock and Wilcox - Steam generators

Employment | Construction: 23,143 person years

Permanent: 650 employees

Contact J. McCredie, Toronto, (416) 592-6616

002-01

	- 79 -
FUTURE RT	VALUE: \$ 1,908 million
	VALUE. S 1,000 million
Sponsor	Toronto Transit Commission
Class - Type	45 - Rapid Transit Line
Location	Ontario - Metro Toronto
Description	Construction of a major east-west rapid transit line north of the Bloor-Danforth line. The exact alignment of the route is under study. This project replaces the previously listed Sheppard Line East and Waterfront and Radial projects.
Facilities	Structures and rolling stock: \$1,718 million
Participants	Province Ontario (75%) Metropolitan Toronto (25%)
Status	Engineering under way
Timing	Start - 1984 Completion - 1998
Employment	Permanent: 230 employees
Contact	S.T. Lawrence, Toronto, (416) 481-4252, Ext. 1207
	T08 - 05

GO-ALRT - CENTRAL LAKESHORE

VALUE: \$ 2,000 million

Province of Ontario Sponsor

Class - Type 45 - Urban Transportation

Location Ontario - Oakville to Pickering

service

Description Construction of an urban transportation system

from Oakville to Pickering. A feasibility study

is under way to establish a route for an

exclusive right-of-way adjacent to or within the present CNR right-of-way. Depending on approvals and construction priorities, work could begin on the eastern portion of the Oakville to Pickering

expansion sometime in the early to mid 1990's.

Status Possible

Start - 1992 Timing Completion - 2017

Contact R.C. Ducharme, Downsview, (416) 630-5220

G09 - 03

GO-ALRT - PICKERING TO OSHAWA SECTION

VALUE: \$ 335 million

Province of Ontario Sponsor

Class - Type 45 - Urban Transportation

Location Ontario - Between Pickering & Oshawa

Description A twin track, electrically powered train service (automatic train control) between Pickering and

Oshawa. The service will connect with GO Transit

to downtown Toronto.

Facilities Civil and track work: \$88.9 million

Stations: 15.9 million

Maintenance facilities: 12.9 million

Status Under construction/Under way

Timing Start - 1984 Completion - 1988

Major Train control systems: \$22.5 million Equipment Power distribution: 18.6 million

Vehicles: 75.2 million

Contractors Urban Transportation Development Corporation

D. Sutherland, Downsview, (416) 630-7990 Contact

G09-02

GO-ALRT - WEST EXTENSION

VALUE: \$ 520 million

Sponsor

Province of Ontario

Class - Type

45 - Urban Transportation

Location

Ontario - Greater Toronto area

Description

Construction of a rapid transit facility to cater to public travel demands in the greater Toronto area - Oakville to Hamilton; generally parallel and adjacent to CNR Oakville subdivision.

Facilities

Track and related civil infrastructure

Stations

Maintenance facilities

Status

Under construction/Under way

Timing

Start - 1984

Completion - 1990

Major Equipment

Power supply

Vehicles

Command and control systems

Contact

K.R. Pask, Downsview, (416) 630-7990

G09 - 01

HARBOURFRONT - SPADINA - CNE LRT

VALUE: \$ 140 million

Sponsor Toronto Transit Commission

45 - Light Rapid Transit Class - Type

Location Ontario - Metro Toronto

Description Construction of street car routes connecting

harbourfront development to Union Station,

Spadina Station and the CNE.

Facilities Structures: \$66 million

Participants Province of Ontario (75%)

Metropolitan Toronto (25%)

Status Engineering under way

Start - 1984 Timing Completion - 1990

Major Rolling Stock: \$58 million

Equipment

Employment Permanent: 100 employees (est.)

S.T. Lawrence, Toronto, (416) 481-4252, Ext. 1207 Contact

T08-06

	- 84 -
HEMLO	VALUE: \$ 250 million
Sponsor	Lac Minerals Ltd.
Class - Type	61 - Gold Mine
Location	Ontario - 30 km east of Marathon
Description	Initial development of a gold mine and mill which is planned to achieve a capacity of 3,000 tonnes per day (t/d) of ore in 1986 with expansion to 6,000 t/d in 1988.
Facilities	Housing for employees
Status	Under construction/Under way
Timing	Start - April 1984 Completion - 1989
Major Equip m ent	Underground mining equipment Milling equipment Pipelines
Employment	Permanent: 600 employees
Contact	J.M. Gibbs, Toronto, (416) 865-0722 L08-01

- 85 -		
HONDA OF CANADA	A MANUFACTURING PLANT VALUE: \$ 100 million	
Sponsor	Honda of Canada Manufacturing Inc.	
Class - Type	90 - Automobile Manufacturing Plant	
Location	Ontario - Near Alliston	
Description	Construction of a greenfields major automobile production facility.	
Status	Engineering under way	
Timing	Start - 1985 Completion - 1987	
Employment	Permanent: 350 employees	
Contact	C. Ambeault, Rexdale, (416) 674-0410	
	H15-01	

HYDROGEN PEROXIDE PLANT

VALUE: \$

100 million

Sponsor Du Pont Canada Inc.

Class - Type | 37 - Hydrogen Peroxide Plant

Location | Ontario - Maitland

Description Construction of a world scale plant at Du Pont's existing Maitland Works to manufacture hydrogen peroxide with an annual capacity of 36 million

kg/year.

Facilities Peroxide plant: \$85 million

Hydrogen plant: 10 million Transportation equipment: 5 million

Status Under construction/Under way

Timing Start - Nov. 1984 Completion - Sept. 1986

Major Peroxide process equipment: \$30 million

Equipment Piping and valves: 15 million
Instrumentation and computers: 10 million
Foundations and buildings: 10 million

Process materials: 5 million

Design and construction management: 15 million Hydrogen plant: 10 million

Transport equipment: 5 million

Contractors Kilborn Kellogg Rust - Construction management

Employment Construction: 400 person years

Permanent: 100 employees

Contact F. Karman, Mississauga, (416) 821-5723

D10-01

KENORA MILL MODERNIZATION

VALUE: \$ 115 million

Sponsor

Boise Cascade Canada Ltd.

Class - Type

27 - Paper Mill

Location

Ontario - Kenora

Description

Modernization of the wood yard, installation of new pulping plant and rebuilding of two paper

machines.

Facilities

Ultra-high yield sulphite pulping plant

Status

Under construction/Under way

Timing

Start - 1984

Completion - 1985

Major

Equipment

New paper machine press

Employment

Construction: 600 person years

Contact

C. Stillar, Kenora, (807) 468-5511

B20-01

NORANDA HEMLO PROJECT

VALUE: \$

270 million

Sponsor Noranda Inc.

Class - Type | 61 - Gold Mine

Location Ontario - Hemlo

Description | Underground mine and surface facilities to

produce gold bullion from 2,500 tonnes per day of ore. Surface facilities are generally complete but underground development, housing and further

surface expansion will continue to 1987.

Facilities Mine, 3,000 tonnes per day: \$125 million

Mill: 120 million

Housing & infrastructure: 25 million

Participants | Noranda Inc. (50%)

Goliath Gold Mines Ltd. and Golden Sceptre

Resources Ltd. (50%)

Status Under construction/Under way

Timing Start - June 1983 Completion - 1987

Major Piping: \$10 million

Equipment Bins, tanks, vessels, chutes: 5 million

Crushers, grinding mills & screens: 4 million

Electrical hoists, cranes, skips: 5 million

and the state of t

Contractors Kilborn Limited; MacIsaac Mining & Tunneling;

Lemay Vican Inc.; Sheafer-Townsend; ICS; Mathews

Employment Construction: 1,200 person years

Permanent: 300 employees

Contact F.X. Koch, Toronto, (416) 867-7197

N13-02

NO. 1 COMBINATION BLOOM/SLAB AND NO.2 SLAB CASTER

VALUE: \$ 228 million

Sponsor

Stelco Inc.

Class - Type

29 - Steel Mill

Location

Ontario - Hamilton

Description

Construction of a continuous caster for Hilton Works to be associated with existing 3 vessel, basic oxygen furnace. Annual capacity to produce steel slabs 200 mm and 240 mm thick and 1,016 mm to 2,032 mm wide or steel blooms 305 mm thick by 560 mm wide will be 2 million tonnes of slabs or 1.82 million tonnes of slabs and blooms.

Facilities

Buildings:

\$27 million

Maintenance and support:

49 million

Status

Under construction/Under way

Timing

Start - 1985

Completion - 1987

Major

Slab casters:

\$102.0 million

Equipment

Piping: Electrics:

20.0 million 16.0 million

Cranes: Mobile equipment: 12.5 million 1.5 million

Ladles, ladle stands, ladle re-heat, ladle trim station, and transfer cars included in

the above.

Contractors

Mitsui/Demag/Hatachi (letter of Intent for two

casting machines)

Contact

S.Y. Shiraishi, Hamilton, (416) 528-2511

S29-02

OSHAWA STAMPING PLANT

VALUE: \$ 228 million

Sponsor General Motors of Canada Limited

90 - Automobile Manufacturing Plant Class - Type

Location Ontario - Oshawa

Construction of a stamping plant to supply body Description panels for G.M.'s Oshawa car assembly plants.

The plant will be the first of its kind in North America. The 360,000 square foot building is linked to the two assembly plants by automated

material handling systems.

Status Under construction/Under way

Timing Start - 1984 Completion - 1988

Major Eight tri-axis transfer presses

Equipment

Employment Construction: 1,000 person years Permanent: 550 employees

Contact N. Stewart, Oshawa, (416) 644-7441

G07-02

OTTAWA-CARLETON RAPID TRANSIT SYSTEM

VALUE: \$ 269 million

Sponsor

Regional Municipality of Ottawa-Carleton

Class - Type

45 - Urban Transportation

Location

Ontario - Ottawa-Carleton

Description

Construction of a 31 km system of bus only roadways with an estimated 28 stations. Ten kilometres of roadways and 10 stations were completed by November 1984. Three kilometres of roadways and 3 stations are currently under construction.

Participants

Province of Ontario (75%)

Regional Municipality of Ottawa-Carleton (25%)

Status

Under construction/Under way

Timing

Start - 1984

Completion - 1990

Contractors

Dibblee; Taggart; Pitts; Dagmar; Doran;

MacFarland

Contact

I.G. Stacey, Ottawa, (613) 560-1293

R10-01

PICKERING 'A' RETUBING

VALUE: \$ 401 million

Sponsor

Ontario Hydro

Class - Type

49 - Electrical Generating Station

Location

Ontario - Pickering

Description

Removal of old, and installation of new, reactor channels in units 1 and 2 of the Pickering nuclear generating station following pressure

tube failures.

Status

Under construction/Under way

Timing

Start - 1983

Completion - 1987

Major

Equipment

Pressure tubes

Contractors

Chase Nuclear - Pressure tubes

Employment

Construction: 420 person years Permanent: no increase

Contact

W.J. Penn, Toronto, (416) 592-6616

002-05

REPAIR/REPLACEMENT OF COKE OVEN BATTERIES

VALUE: \$

100 million

Sponsor

Stelco Inc.

Class - Type

29 - Steel Mill

Location

Ontario - Hamilton

Description

Major repair or replacement of No. 3, 4 and 5 coke oven batteries at the Hilton works. Longevity of existing coke ovens will be determined by regular inspection. The project is

in the planning stages at present.

Status

Possible

Timing

Start - 1992

Completion - 1995

Major Equipment Components for coke oven batteries.

Contact

S.Y. Shiraishi, Hamilton, (416) 528-2511

S29-03

SMELTER IMPROVEMENT

VALUE: \$ 100 million

Sponsor

INCO Limited

Class - Type

29 - Nickel Smelting

Location

Ontario - Sudbury

Description

Major modifications, replacement and/or addition to the Copper Cliff smelter and related facilities to reduce emission levels and improve smelting efficiency. Related research and engineering studies are continuing through 1985.

Status

Engineering under way

Timing

Start - Late 80's Completion - Early 90's

Major Equipment Heavy materials handling equipment

Furnaces

Ducting of gases

Acid recovery equipment

Contact

M.D. Sopko, Copper Cliff, (705) 682-5224

VALUE: \$ 171 million

TORONTO SUBWAY CARS

Sponsor

Toronto Transit Commission

Class - Type | 45 - Urban Transportation

Location Ontario - Metro Toronto

Description Supply of 126 subway cars the manufacturing of

which is already in progress.

Participants | Province of Ontario (75%)

Metropolitan Toronto (25%)

Status Under construction/Under way

Timing | Start - 1981 | Completion - 1987

Major Subway cars: \$171 million

Equipment

Contractors Urban Transportation Development Corporation

Employment | Permanent: 22 employees

Contact | S.T. Lawrence, Toronto, (416) 481-4252, Ext. 1207

T08-04

BECANCOUR ALUMINUM SMELTER

VALUE: \$

1,300 million

Sponsor Aluminerie de Bécancour Inc.

Class - Type | 29 - Aluminum Smelter

Location Quebec - Bécancour

Description | Construction of an aluminum smelter and foundry.

Facilities | Conveyor

Paste plant for anodes Carbon electrode plant Electrical substation

Silos Foundry

Participants | Péchiney Québec, Inc. (50.1%)

Alumax Québec, Inc. (24.95%)

Albecour, Société en commandite (24.95%)

Status Under construction/Under way

Timing Start - June 1985 Completion - June 1986

Major Electrolysis pots

Equipment | Heated transfer system

Mixers

Computer controls

Contractors | Lavalin Inc. - Prime contractor

Employment | Construction: 2,500 person years

Permanent: 850 employees

Contact | R. Bonfils, Montreal, (514) 282-2057

A18-01

CANADAIR WATER	BOMBER PROJECT VALUE: \$ 147 million
Sponsor	Transport Canada
Class - Type	80 - Government
Location	Quebec - Dorval
Description	Construction of seventeen CL-215 water bombers for the Federal Government and a further 12 water bombers for various provincial governments.
Participants	The Federal Government and the provinces of Alberta, Saskatchewan, Manitoba, Ontario, Quebec, Newfoundland, the Yukon and the Northwest Territories.
Status	Under construction/Under way
Timing	Start - 1983 Completion - 1987
Employment	Permanent: 600 employees
Contact	D.E. Lamont, Ottawa, (613) 998-3316 2-T02-02

CANMET HYDROCRACKER PROJECT

VALUE: \$

117 million

Sponsor Petro-Canada Products

Class - Type | 07 - Heavy Oil Upgrading

Location | Quebec - Montreal

Description | Construction of a 5,000 barrel per day

demonstration unit for upgrading refinery

residuals and heavy oils.

Status Under construction/Under way

Timing Start - 1983 Completion - 1985

Major High temperature, high pressure vessels

Equipment | Process and materials handling equipment

Contractors Partec-Lavalin

Employment | Construction: 375 person years

Permanent: 25 employees

Contact K. Bandirk, Toronto, (416) 445-9113

P04-12

CASCADES - RE-OPENING OF I.T.T. MILL

VALUE: \$ 100 million

Cascades Inc. Sponsor

Class - Type 27 - Pulp Mill

Location Quebec - Port Cartier

Description A project to modify and re-start the existing

mill to produce 100,000 tonnes per year of

"fluff" pulp.

Possible Status

Start - 1985 Timing Completion - 1986

Paper machine Major

Equipment Refiners Piping

> Electrical components Anti-pollution equipment

Employment Permanent: 300 employees

Contact B. Lemaire, Kingsey Falls, (819) 363-2245

C43-01

DELANEY HYDRO PROJECT

VALUE: \$ * million

Sponsor

Hydro-Quebec

Class - Type

49 - Hydroelectric Generation

Location

Quebec - St. Raymond de Portneuf

Description

Installation of a pump-turbine station for peak load service. The previous inventory had this project listed as a 2,550 MW station costing *\$961 million (1982) but peak service capacity needs are under review. The planning studies are expected to have a major effect on

the size and timing of this project.

Status

Possible

Timing

Start - 1990

Completion - 2000

Ma jor

Pumps

Equipment

Hydraulic turbine generator

Electrical and mechanical equipment

Contact

G. Blanchette, Montreal, (514) 289-5043

H13-07

EXPANSION OF MANIC 5

VALUE: \$ 200 million

Sponsor

Hydro-Quebec

Class - Type

49 - Electrical Power Generation

Location

Quebec - Manicouagan River 150 km north of

Baie Comeau

Description

Restart in 1986 of work suspended earlier on expansion of the hydroelectric power plant in order to add 980 MW to Manic 5. Major equipment is now under construction. Installation work

will be in full swing in 1986.

Status

Under construction/Under way

Timing

Start - 1986

Completion - 1989

Major

Equipment

Hydraulic turbine generator Electrical and mechanical equipment

Employment

Construction: 1,200 person years

Contact

J. Tétreault, Montreal, (514) 289-6585

H13-09

EXTENSION MONTREAL TRANSIT SYSTEM, LINE #2

VALUE: \$ 133 million

Sponsor Montreal Urban Community

Class - Type 45 - Urban Transportation

Location Quebec - Montreal

Description Extension of Line #2 heading northwest (0.9 km)

below Victoria Street and Décarie Boulevard from

du Collège Street to Côte Vertu Road in

Saint-Laurent. Since January 1984 Line #2 is operating from Plamondon Street to du Collège

Street.

Status Under construction/Under way

Start - 1978 Completion - 1985 Timing

Contact J.H. Ostiguy, Montreal, (514) 872-6860

M02 - 05

EXTENSION MONTREAL TRANSIT SYSTEM, LINE #3

VALUE: \$ 267 million

Sponsor Montreal Urban Community

Class - Type | 45 - Urban Transportation

Location Quebec - Montreal

Modernization of Line #3 from Central Station Description

going northwest via Montreal Island (27.5 km).

Status Possible

Start - 1988 Completion - 1993 Timing

J.H. Ostiguy, Montreal, (514) 872-6860 Contact

M02-03

EXTENSION MONTREAL TRANSIT SYSTEM, LINE #5, PHASE I

VALUE: \$ 320 million

Sponsor | Montreal Urban Community

Class - Type | 45 - Urban Transportation

Location | Quebec - Montreal

Description | Construction of Line #5 from Snowdon Station in

the west and going east up to Jean-Talon Street

and Saint-Michel Boulevard (9.7 km).

Status Under construction/Under way

Timing Start - 1978 Completion - 1986

Contact J.H. Ostiguy, Montreal, (514) 872-6860

M02-01

EXTENSION MONTREAL TRANSIT SYSTEM, LINE #5, PHASE II

VALUE: \$ 145 million

Sponsor Montreal Urban Community

45 - Urban Transportation Class - Type

Quebec - Montreal Location

Extension of Line #5 from Jean-Talon Street Description

station to Saint-Léonard and Anjou (5.4 km).

Status Possible

Timing Start - 1986 Completion - 1992

J.H. Ostiguy, Montreal, (514) 872-6860 Contact

M02 - 04

EXTENSION MONTREAL TRANSIT SYSTEM, LINE #7

VALUE: \$

398 million

Sponsor Montreal Urban Community

Class - Type | 45 - Urban Transportation

Location Quebec - Montreal

Description | Construction of Line #7 along Pie IX Boulevard

first north, then east (11.7 km).

Status Under construction/Under way

Timing Start - 1985 Completion - 1992

Contact J.H. Ostiguy, Montreal, (514) 872-6860

M02-06

JAMES BAY, LA GRANDE LG2 EXPANSION

VALUE: \$ 700 million

Sponsor Hydro-Quebec

Class - Type 49 - Hydroelectric Generation

Quebec - James Bay, on the La Grande river Location

Description Construction of 1,900 MW of additional capacity

at the LG-2 site on the La Grande river.

Technical studies are under way but a detailed

development plan has not been completed.

Status Engineering under way

Start - 1987 Completion - 1994 Timing

Major Hydraulic turbine generators and

Equipment associated electrical and

mechanical equipment: \$700 million

Employment Construction: 38,000 person years

Contact G. Blanchette, Montreal, (514) 289-5043

JAMES BAY, LA GRANDE SEVENTH TRANSMISSION LINE

VALUE: \$

650 million

Sponsor Hydro-Quebec

Class - Type | 49 - Electric Power Transmission

Location Quebec - James Bay and northwest Quebec

Description | Construction of a 735 kV transmission line to

integrate the generating stations in the

La Grande Phase II complex. A development plan

has been completed.

Facilities Transmission line, 735 kV: \$550 million

Additional station, 735 kV: 100 million

Status Possible

Timing Start - 1990 Completion - 1995

Major High voltage power transformers

Equipment | Circuit breakers

Transmission line equipment

Contact A. Filteau, Montreal, (514) 289-5033

LA CITIÈRE - ADDITION OF GAS TURBINES

VALUE: \$ 250 million

Sponsor Hydro-Quebec

Class - Type 49 - Electric Power Generation

Location Quebec - Brossard/Laprairie

Description Addition of gas turbines at the La Citière

> station. This project is in the planning stage. A decision on its implementation is not imminent

and a feasibility study would be required.

Facilities Gas turbines to add 800 MW of

capacity:

\$200 million

Possible Status

Start - 1992 Timing

Major Gas turbine generators

Equipment Station and substation equipment

G. Blanchette, Montreal, (514) 289-5043 Contact

LA	GRANDE	PHASE	II

VALUE: \$ 2.

2,500 million

Sponsor Hydro-Quebec

Class - Type | 49 - Hydroelectric Generation

Location Quebec - James Bay, at La Grande,

1,000 km north of Montreal

Description The construction of three power stations on the

La Grande, La Forge and Eastmain rivers. Hydroelectric power plants to be constructed at:

LG-1 1,368 MW

Brisay 386 MW La Forge 780 MW

Facilities Hydroelectric installations

Status Engineering under way

Timing Start - 1991 Completion - 1998

Major Hydro turbine-generators

Equipment | Electrical and mechanical equipment

Employment | Construction: 23,000 person years

Contact G. Blanchette, Montreal, (514) 289-5043

MADAWASKA ELECTRIC POWER LINES AND SWITCHYARD

VALUE: \$

176 million

Sponsor Hydro-Quebec

Class - Type | 49 - Electrical Power Distribution

Location Quebec - Madawaska

Description

Construction of a 315 kV AC line, a switchyard and and AC-DC-AC converter station at Madawaska to provide electric power connection with New Brunswick. The transmission line will run 90 km from Rivière-du-Loup to Madawaska where the

frequency will be changed to 345 kV AC for onward

transmission to the New Brunswick Power

Commission.

Facilities | Power line:

Power line: \$92 million Switchyard: 84 million

Status Under construction/Under way

Timing | Start - 1983 | Completion - 1985

Major Power transformers
Equipment Protection equipment

Substation and transmission line equipment

AC-DC-AC converter

Contact M. Lebeuf, Montreal, (514) 289-5025

MAJOR RECONSTRUCTION OF LES CEDRES GENERATING STATION

VALUE: \$ 100 million Sponsor Hydro-Quebec 49 - Electric Generation Class - Type Location Quebec - 5 km from Valleyfield Description Overhaul of the generating station at Les Cèdres by replacing the turbine runners, rewinding the alternators and replacing the interior transformer station with an exterior station. Feasibility and technical studies have been completed but a detailed development plan has yet to be prepared. Facilities Main station (reconstruction), 180 MW: \$85 million Transformer station (reconstruction): 15 million Status Possible Timing Start - 1987 Completion - 1992 J. Beaupré, Montreal, (514) 289-5027 Contact H13-12

	- 113 -			
MERCIER - ADDITION OF 60 MW CAPACITY AND TRANSMISSION LINE VALUE: \$ 109 million				
	VILLETY Y TOO MITTION			
Sponsor	Hydro-Quebec			
Class - Type	49 - Hydroelectric Generation and Transmission			
Location	Quebec - 15 km north of the village of Grand-Remous			
Description	Addition of a 60 MW hydro turbine generator to an existing dam and construction of a 120 kV transmission line from Mercier to Maniwaki.			
Status	Engineering under way			
Timing	Start - 1988 Completion - 1991			
Major Equipment	Turbine generator, 60 MW: \$ 90 million Static frequency converter, 60 MW: 9 million 40 km, AC transmission line, 120 kV: 10 million Substation:			
Contact	J. Beaupré, Montreal, (514) 289-5027 H13-13			

MONTREAL MAINTENANCE CENTRE VIA RAIL VALUE: \$ 139 million				
Sponsor	VIA Rail Canada Inc.			
Class - Type	45 - Railway Transportation			
Location	Quebec - Pointe St-Charles,			
	Municipality of Montreal			
Description	Construction on a 75 acre site of maintenance and			
	repair facilities, a major overhaul facility,			
	offices, a supply centre and a whee			
	shop incorporated in a railway sort	ing yard with		
	a loop track.			
Facilities	Principal structures:	\$33.0 million		
ractificies	Wheel shop:	4.0 million		
	Supply centre:	1.5 million		
	Fuel depot:	0.7 million		
	Site and rail lines:	21.7 million		
Status	Under construction/Under way			
Timing	Start - Summer 1984 Completion	- Spring 1988		
12	bear sammer 1757 compression	. oping 1900		
Major	Rail, crossovers and accessories:	\$7.7 million		
Equipment	Ventilation systems:	1.9 million		
	Transformers:	1.6 million		
		1.0 million		
	Wheel removal system: Hoisting platforms, 50 & 100 tons:	0.8 million		
	noisting pratforms, 30 & 100 tons:	O.O militon		
Contractors	Franki			
	Whiting Equipment Canada Inc.			

Whiting Equipment Canada Inc.

Simmons-Stanray

Employment Construction: 300 person years

Permanent: 554 employees

Contact K.J. Morrison, Montreal, (514) 286-2894

V07-04

NEPOOL ELECTRIC POWER LINE AND SWITCHYARD

VALUE: \$

300 million

Sponsor Hydro

Hydro-Quebec

Class - Type

49 - Electric Transmission

Location

Quebec - Eastern townships near Sherbrooke

Description

Construction of a transmission line, AC-DC converter and switchyard to provide electric power connection with the New England Pool

(NEPOOL).

Facilities

DC transmission line, 450 kV

Status

Under construction/Under way

Timing

Start - 1985

Completion - 1986

Major

Contact

AC-DC power conversion equipment Substation equipment

Equipment

A. Penelle, Montreal, (514) 289-5724

NICOLET AC-DC CONVERTER STATION

VALUE: \$ 120 million

Sponsor

Hydro-Quebec

Class - Type

49 - Electric Generation

Location

Quebec - Nicolet near Trois Rivières on the south shore of the St. Lawrence

Description

Construction of a new facility to convert alternating current (AC) to 2,000 MW direct current (DC) output at the Nicolet generating

station.

Status

Engineering under way

Timing

Start - 1990

Completion - 1992

Major

Equipment

AC/DC conversion equipment with rectifier transformers and

circuit breakers:

\$120 million

Contact

Y. Bourget, Montreal, (514) 289-5033

PAPER MACHINE	MODERNIZATION	PROGRAM
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111 million

Sponsor Reed Inc.

Class - Type | 27 - Newsprint Mill

Location Quebec - Quebec City

Description Modernize four paper machines to improve sheet

quality and to increase salable newsprint

production by 200 tonnes/day. Two of four phases

have been completed.

Status Under construction/Under way

Timing Start - 1982 Completion - 1986

Major Install top wires and rebuild

Equipment press sections: \$97 million

Replace drives: 14 million

Contractors | Comstock International - Installation & services

B.G. Checo - Installation & services

Dominion Engineering - Equipment

Beloit Canada - Equipment Reliance - Equipment

Voith - Equipment

Employment | Construction: 400 person years

Contact P. Lawson, Toronto, (416) 862-5103

R09-01

QUEBEC MILLS MODERNIZATION AND EXPANSION

VALUE: \$

400 million

Sponsor Consolidated-Bathurst Inc.

Class - Type | 27 - Newsprint Mill

Location Quebec - Port Alfred, Grand'Mère, Shawinigan,

Trois Rivières

Description | Modernization, expansion, environmental

protection and energy conservation programs for each mill. The project has been under way for some time. A number of sub-projects are already

completed.

Status | Under construction/Under way

Timing Start - 1979 Completion - 1987

Major Presses
Equipment Pulpers

Pumps & motors
Dynaformer
Gear drivers

Driers

Tanks, compressors and conveyors

Contact T.R. Cochran, Montreal, (514) 875-2160

C27-01

- 119 -				
QUEBEC NATURAL GAS DISTRIBUTION NETWORK VALUE: \$ 393 million				
Sponsor	Gas Inter-Cité Québec Inc.			
Class - Type	46 - Natural Gas Distribution			
Location	Quebec - Distribution in the Mauricie, Quebec Estrie and Saguenay regions of the province.			
Description	Extension of the Quebec natural gas distribution system through construction of new steel and plastic pipelines. The project includes the hook-up of consumers to the system.			
Participants	Inter City Gas (49%) SOQUIP (49%) Caisse de dépôt et de placement (2%)			
Status	Under construction/Under way			
Timing	Start - 1982 Completion - 1989			
Major Equipment	Line pipe (steel and plastic) Regulators Meters Communication system			
Contractors	Construction St-Laurent Limitée Antagon/Banister Co. Entreprise Construction Vanneau Construction Bau-Val Massicotte et Fils Norgaz et Sogaz			
Employment	Construction: 7,100 person years Permanent: 300 employees			
Contact	Y. Pichette, Ste-Foy, (418) 659-5111 G02-01			

- 120 -OUEBEC NATURAL GAS PIPELINE LATERALS VALUE: \$ 474 million Sponsor Gaz Inter-Cité Québec Inc. Class - Type 46 - Natural Gas Pipeline Location Quebec - Drummondville and other unspecified districts of the province Construction of laterals from main TOM line to Description different areas of Quebec. In 1988 service will be extended to Drummondville. Status Under construction/Under way Start - 1983 Timing Completion - 1988 Major Line pipe Equipment Metering stations Compression stations Contractors Les Constructions St. Laurent Limitée Antagon/Banister Co. Entreprise Majestic, Duranceau, Legault **Employment** Construction: 7,400 person years S.G. Morin, Ste-Foy, (418) 659-5111 Contact G02-02

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RADISSON/NICOLET/DES CANTONS TRANSMISSION LINE VALUE: \$ 700 million				
Sponsor	Hydro-Quebec			
Class - Type	49 - Electric Transmission Line			
Location	Quebec - James Bay and northwest Quebec			
Description	Construction of a 450 kV (DC) power transmission line from Radisson station at the James Bay complex to the Nicolet and Des Cantons stations on the south shore of the St. Lawrence. A conversion station will be built at Radisson. Planning continues and timing of construction has not been decided upon as yet.			
Facilities	Transmission line, 450 kV: \$500 million Converter station: 200 million			
Status	Engineering under way			
Major Equipment	Rectifiers Rectifier transformers Circuit breakers Substation equipment			
Contact	J.P. Rémillard, Montreal, (514) 289-6566 H13-14			

REXFOR - RE-OPENING OF I.T.T. MILL

VALUE: \$ 283 million

Sponsor

Rexfor

Class - Type | 27 - Supercalendered Paper Mill

Location

Quebec - Port Cartier

Description

A project to modify an existing mill to produce 190,000 tonnes per year of supercalendered paper

for offset and rotogravure printing.

Facilities

New pulping unit: New paper machine: \$ 36 million 132 million

Status

Possible

Timing

Start - 1985 Completion - 1987

Employment

Permanent: 470 employees

Contact

M. Duchesneau, Ste. Foy, (418) 659-4530

R08-02

500 million

Sponsor Canadian Reynolds Metals Co.

29 - Aluminum Smelter Class - Type

Quebec - Baie Comeau Location

Description Expansion of the primary smelter to increase capacity from 175,000 tons per year to 300,000 tons per year. Construction is almost completed

and the smelter expansion is in partial

operation.

Facilities One potline with supporting facilities

Status Under construction/Under way

Timing Start - 1982 Completion - August 1985

S.N.C. Contractors

Employment Permanent: 450 employees

H.W. Hendley, Baie Comeau, (418) 296-2441 Contact C24-01

ROBERTSON	LAKE	HYDRO
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100 million

Sponsor

Hydro-Quebec

Class - Type

49 - Hydroelectric Generation

Location

Quebec - La Tabatière, 600 km east of

Sept Iles

Description

Replacement of diesel generators with a small hydroelectric facility to serve the villages of La Tabatière, Saint-Augustin and Blanc Sablon. Construction is approved and public hearings are

under way to get second stage government

approvals.

Facilities

Dam

Substation Generator

Status

Engineering under way

Timing

Start - 1985

Completion - 1988

Major

Equipment

Substation and hydraulic

turbine generator, 21 MW: Transmission network:

\$ 65 million 35 million

Employment

Construction: 400 person years Permanent: 18 employees

Contact

P. Grémaux, Montreal, (514) 289-5156

TEMBEC - RE-OPENING OF I.T.T. MILL

VALUE: \$ 100 million

Sponsor

Tembec Inc.

Class - Type

27 - Pulp Mill

Location

Quebec - Port Cartier

Description

Renovation and start up of existing mill to produce 180,000 tonnes per year of pulp.

Possible

Timing

Status

Start - 1986

Completion - 1987

Employment

Construction: 200 person years

Permanent:

600 employees

Contact

A.H. Riviere, Témiscaming, (819) 627-3321

T12-02

TEMCELL BCTMP PULP MILI	TEMCELL	BCTMP	PULP	MILL
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103 million

Sponsor

Tembec Inc.

Class - Type

27 - Pulp Mill

Location

Quebec - Témiscaming

Description

Construction of a 300 tonnes per day bleached chemi-thermo-mechanical pulp mill to produce a variety of soft and hardwood pulp grades suitable for use in manufacture of tissues, towels paperboard and disposable paper products.

Facilities

Pulp mill, 90,000 metric

tonnes/year:

\$103.3 million

Housing, 20-30 units (not incl.): 2.0 million Wood handling & supply (not incl.): 5.0 million

Participants

Tembec (45%)

Others (55%)

Status

Under construction/Under way

Timing

Start - Dec. 1984

Completion - Jul. 1986

Major

Equipment

Pulp and paper equipment, refiners, presses:

Electrical transformers

\$ 22 million

1 . . .

and switchgear:

5 million

Structural steel and cladding

material:

3 million

Contractors

L.P. Pilon - Mechanical & electrical engineering

Marshall Steel - Buildings and civil engineering

Employment

Construction: 500 person years

Permanent:

50 employees

Contact

D. Deer, Témiscaming, (819) 627-3321

T12-04

UNDERWATER ELECTRIC CABLE TO ILES-DE-LA-MADELEINE

VALUE: \$

150 million

Hydro-Quebec Sponsor

Class - Type 49 - Electric Power Transmission

Location Quebec - Chandler to Cap-aux-Meules

Description Installation of two AC/DC conversion stations and two underwater cables between the Gaspé peninsula

and the Iles-de-la-Madeleine.

Facilities Chandler conversion station,

> 100 MW: \$ 20 million

Cap-aux-Meules conversion station,

100 MW: 20 million

Submarine cable:

110 million

Status Engineering under way

Start - 1988 Timing Completion - 1989

2 submarine cables, 250 km (each): \$30 million Major Equipment

4 power transformers, 60 MVA (each): 6 million

2 synchronous compensators, 50 MVA

(each): 8 million

4 conversion bridges, 50 MVA (each): 12 million

M. Lebeuf, Montreal, (514) 289-5025 Contact

WINDSOR MILL REHABILITATION

VALUE: \$

833 million

Sponsor

Domtar Inc.

Class - Type

27 - Paper Mill

Location

Quebec - Windsor

Description

Rehabilitation of a fine paper mill, including a new pulp mill, two fine paper machines and related environmental protection equipment. Initial start up is planned for 1987. The facilities should be in full production by 1989.

Status

Engineering under way

Timing

Start - 1985

Completion - 1989

Employment

Construction: 10,000 person years Permanent: 650 employees

Contact

R. Buser, Montreal, (514) 848-5173

D09-04

ACADIA COATED PAPER	PROJECT
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Sponsor Repap Enterprises Inc.

Class - Type 27 - Coated Paper Mill

New Brunswick - Newcastle Location

Construction of a world scale, 200,000 Description

tonnes per year coated paper facility and

integration of the Newcastle kraft pulp mill and the Chatham groundwood pulp mill. Construction

VALUE: \$

is approved.

Facilities Building and site preparation: \$20 million

Status Engineering under way

Timing Start - April 1985 Completion - July 1986

Ma jor Base stock paper machine: \$80 million

Equipment Off machine coater: 30 million

20 million Supercalenders (2): 15 million

Roll finishing:

Contractors Lummus Canada - Prime contractor

Valmet Dominion - Paper machine

Employment Construction: 3,800 person years

Permanent: 150 employees

Contact A.J. Dundas, Montreal, (514) 879-1316

R11-01

230 million

BATHURST PULP MILL MODERNIZATION

VALUE: \$

200 million

Sponsor

Consolidated-Bathurst Inc.

Class - Type

27 - Pulp Mill

Location

New Brunswick - Bathurst

Description

Installation of chemical-thermo-mechanical pulp mill (capacity 400 tonnes per day) and

corrugating medium paper machine (capacity 350 tonnes per day).

Status

Under construction/Under way

Timing

Start - 1981

Completion - 1988

Major

Fibrolators and motors

Equipment

Conveyors

Filtration discs

Pumps Driers

Employment

Permanent: 505 employees

Contact

T.R. Cochran, Montreal, (514) 875-2160

C27-02

	- 131 -
COLESON COVE	
	VALUE: \$ 240 million
Sponsor	New Brunswick Electric Power Commission
Class - Type	49 - Power Generation Station
Location	New Brunswick - Coleson Cove
Description	Conversion of a 3 unit, 1,000 MW oil fired thermal generating station to coal firing with a 750 MW rating.
Facilities	New coal and ash handling facility Marine facility to receive coal
Status	Engineering under way
Employment	Construction: 3,000 person years Permanent: 20-40 employees
Contact	R.E. Haggerty, Fredericton, (506) 453-4302 N09-03

GRAND LAKE THERMAL UNIT #9

VALUE: \$

254 million

Sponsor

New Brunswick Electric Power Commission

Class - Type

49 - Power Generation

Location

New Brunswick - 10 km east of Minto

Description

Construction of a 200 MW coal fired thermal generating station. Exact project timing, location and output are to be determined later depending on the future of the Point Lepreau II generating station project.

Status

Possible

Timing

Start - 1988

Completion - 1994

Major

Power boiler

Equipment

Turbine generator, 200 'MW

Electrical and mechanical equipment

Employment

Construction: 925 person years

Permanent:

40 employees

Contact

D.G. Hayward, Fredericton, (506) 453-4246

N09-01

NEW	BRUNSWICK	POTASH	PROJECT.

350 million

Sponsor Denison-Potacan Potash Co.

Class - Type | 62 - Potash Mine

Location New Brunswick - Near Sussex

Description | Construction of a 1.3 million tonnes per year

potash mine.

Facilities Rail link to Saint John harbour

Storage at Saint John harbour

Participants | Denison Mines Ltd. (60%)

Potash Company of Canada Ltd. (40%)

Status Under construction/Under way

Timing Start - 1983 Completion - 1986

Contractors | Kilborn Ltd. - Engineering, procurement and

construction

Employment Construction: 800 person years

Permanent: 300 employees

Contact A.J. Kyle, Sussex, (506) 839-2146

D05-01

POINT LEPREAU NUCLEAR STATION UNIT #2

VALUE: \$ 1,400 million

Sponsor New Brunswick Electric Power Commission

Class - Type | 49 - Nuclear Power Generation

Location New Brunswick - 48 km west of Saint John

Description Construction of a 630 MW nuclear generating station. Firm contracts for power are needed

before the project could go from technical study

to a detailed development plan.

Facilities | Power house and equipment

Status Possible

Major Nuclear turbine generator, 630 MW

Equipment | Electrical and mechanical equipment

Nuclear reactor

Employment | Construction: 5,400 person years (peak)

Permanent: 120 employees

Contact D.G. Hayward, Fredericton, (506) 453-4246

N09-04

	- 135 -			
DONKIN-MORIEN MINE				
	VALUE: \$ 241	million		
Sponsor	Cape Breton Development Corporation	1		
Class - Type	63 - Coal Mine			
Location	Nova Scotia - 20 km from Glace Bay			
Description	Development of a coal mine to produce 1 million tons of coal per annum. The project will include two 3.5 km tunnels, installation of underground equipment and the provision of surface facilities for coal handling.			
Facilities	Underground development & equipment: Surface facilities and offsite railway: Site work and tunnel drivage:	\$88.5 million 54.5 million 90.5 million		
Status	Under construction/Under way			
Timing	Start - 1982 Completion - 1986			
Major Equipment	Tunnel boring machine: Trucks:	\$10 million 2 million		
Contractors	Beaver Underground Structures Walker Mining & Tunnelling Ltd.			
Employment	Construction: 500 person years Permanent: 270 employees			
Contact	J.C. Marsh, Sydney, (902) 564-3715	C23-01		

EAST KEMPTVILLE TIN MINE

VALUE: \$

170 million

Sponsor Rio Algom Limited

Class - Type 61 - Tin Mine

Location Nova Scotia - Yarmouth

Description Construction of an open pit tin mine with ore

processing, administration and ancillary

facilities.

\$52 million Facilities Milling:

14 million General plant:

Status Under construction/Under way

Start - 1984 Completion - 1985 Timing

Reichert cones: Major 2.0 million Equipment Grinding mills:

0.7 million Control system:

Contractors Commonwealth Construction - Mechanical,

electrical and instrumentation Northern Construction - Concrete John T. Hepburn - Structural steel

Robertson Building - Siding and decking

Employment Construction: 300 person years

Permanent: 255 employees

Contact D.J. Rudack, Toronto, (416) 367-4000

R07-03

\$0.8 million

EAST SADLE EXTLUMNATION AGREEMEN	EAST	SABLE	EXPLORATION	AGREEMENT
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100 million

Sponsor

Dome Petroleum Limited

Class - Type

09 - 0il and Gas Exploration

Location

Nova Scotia - Offshore on the Scotian Shelf,

East Sable and Northumberland Block

Description

A program to drill one well with an option to drill two additional wells. Home Oil has taken over as operator from Dome and opted to drill a second well. The program will be finished once

the second well is completed.

Participants

Home Oil (operator)

Status

Under construction/Under way

Timing

Start - 1983

Completion - 1985

Major Equipment Jack-up drill rig (Glomar Labrador I)

Two supply boats

Employment

Permanent: 60 employees

Contact

R. Argument, Halifax, (902) 421-1551

D03 - 08

- 138 -				
FUNDY BAY TIDAL POWER PROJECT - CUMBERLAND BASIN VALUE: \$ 3,000 million				
Sponsor	Tidal Power Corporation			
Class - Type	49 - Electrical Power Generation			
Location	Nova Scotia - Cumberland Basin, 20 km from Amherst			
Description	Construction of a 1,428 MW tidal power plant. The timing of this project is the subject of much speculation. It may be possible to start it after 1990 but more likely it would not be started until after the year 2000.			
Facilities	Power plant Barrage of 2.5 km Transmission lines			
Status	Possible			
Timing	Start - 1990 Completion - 1997 (est.)			
Major Equipment	42 horizontal hydraulic turbine generator sets, each rated at 34 MW Electrical and mechanical equipment			
Contact	G.C. Baker, Halifax, (902) 423-8467 T13-02			

FUNDY BAY TIDAL POWER PROJECT - MINAS BASIN VALUE: \$ 7,451 million Sponsor Tidal Power Corporation Class - Type 49 - Electrical Power Generation Location Nova Scotia - Minas Basin, 50 km from Truro Description Construction of a single-basin, single-effect tidal power plant with an installed capacity of 4,400 MW and an annual output of approximately 12,000 GWh. Facilities Power plant Barrage length of 8 km from Economy Point to Cape Tenny Transmission lines Status Possible Timing Start - 1992 Completion - 2002 Major 106 to 128 horizontal hydraulic turbine generator Equipment sets, each rated at 41.5 MW Electrical and mechanical equipment G.C. Baker, Halifax, (902) 423-8467 Contact T13-01

LINGAN PHALEN MINE

AUTOR: A

VALUE: \$ 184 million

Sponsor

Cape Breton Development Corporation

Class - Type

63 - Coal Mine

Location

Nova Scotia - Near New Waterford, Cape

Breton County

Description

Development of a 1.5 million tonnes per year

underground mine and related facilities.

Status

Under construction/Under way

Timing

Start - 1984

Completion - 1987

Major

Equipment

Longwall mining equipment:

\$25.4 million 12.0 million

Development drivage machine: Coal transport and sizing:

19.0 million

Employment

Contact

Construction: Permanent:

2,000 person years 900 employees

D. Merner, Sydney, (902) 564-2840

C23-03

POINT TUPPER GENERATING UNIT #3

VALUE: \$

360 million

Sponsor Nova Scotia Power Corporation

Class - Type | 49 - Power Generation

Location Nova Scotia - Point Tupper

Description Installation of a 300 MW coal fired generating

unit.

Facilities Buildings/structures: \$ 80 million

Boiler plant: 123 million
Turbine plant: 80 million
Electrical plant: 22 million

liteotrical plan

Status Possible

Timing Start - 1985 Completion - 1991

Major Coal fired boiler, 300 MW

Equipment Steam turbine generator set

Electrical and mechanical equipment

Employment Construction: 2,200 person years

Permanent: 100 employees

Contact M.W. MacAlpine, Halifax, (902) 424-2919

N10-03

POINT TUPPER GENERATING UNIT #4

VALUE: \$ 357 million

Sponsor Nova Scotia Power Corporation

49 - Thermal Power Plant Class - Type

Location Nova Scotia - Point Tupper

Installation of a 300 MW coal fired station. Description

Facilities Boiler plant: \$112 million

> Turbine plant: 80 million 54 million Building and structure:

> Electrical plant: 19 million

Engineering under way

Status

Timing Start - 1987 Completion - 1993

Major Coal fired boiler, 300 MW

Equipment Steam turbine generator set Electrical and mechanical equipment

Employment Construction: 2,200 person years

Permanent: 50 employees

Contact M.W. MacAlpine, Halifax, (902) 424-2919

N10-04

SCOTIA COAL SYNFU	ELS	PROJECT
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VALUE: \$

700 million

Sponsor Alastair Gillespie & Associates

Class - Type | 36 - Coal Liquefaction

Location Nova Scotia - Point Tupper or Sydney or across

the Strait of Canso from Port Hawkesbury

Description | Construction of a facility to convert coal to synthetic crude which could be used in existing

eastern Canadian refineries. The project's value could be between \$700 million and \$1.5 billion.

The consortium is currently carrying out technical and economic feasibility studies.

Facilities Coal preparation

Coal liquefaction

Coal liquid treatment & recovery

Hydrogen production

Hydrotreatment, 10,000 to 30,000 bb1/d

Emission control Waste water treatment

Coal transportation and unloading (barge/rail)

Steam and power generation

Participants | Cape Breton Development Corp. (19½%)

Petro-Canada (19½%)

Nova, An Alberta Corp. (19½%)

Gulf Canada (19½%)

Nova Scotia Resources Ltd. (19½%) Alastair Gillespie & Associates (2½%)

Status Possible

Employment | Construction: 12,500 person years

Permanent: 750 employees (plant)

1,000 - 1,500 employees (mine)

Contact E.J. Mako, Markham, (416) 474-1265

A24-01

SCOTIAN SHELF EXPLORATION, PROGRAM 2

VALUE: \$ 551 million

Sponsor Shell Canada Ltd.

Class - Type | 09 - 0il and Gas Exploration

Location Nova Scotia - Offshore

Description | Completion of 7 exploration agreements, each with

3 year terms, covering a geophysical program of 6,000 km and a drilling program of 9 exploration

wells.

Participants | Shell Canada Resources Ltd. (25%)

Shell Explorer (12.5%)

Petro-Canada Exploration Inc. (45%)

Canterra Energy (15%)

Status Under construction/Under way

Timing Start - 1982 Completion - 1986

Major Leasing of one offshore drilling rig, 2 supply

Equipment | boats and other equipment.

Employment 475 persons for the term of the program

Contact C.A. Bonke, Calgary, (403) 232-3111

S06-07

SCOTIAN SLOPE EXPLORATION

VALUE: \$ 188 million

Sponsor

Shell Canada Ltd.

Class - Type

09 - Oil and Gas Exploration

Location

Nova Scotia - on the Scotian slope

Description

Six exploration agreements of either 4 or 6 year terms covering the drilling of 6 exploration

wells.

Participants

Shell Canada Resources Ltd. (50%)

Shell Explorer (25%) Canterra Energy (25%)

Status

Under construction/Under way

Timing

Start - 1982

Completion - 1987

Major

Drilling rig: Equipment Supply vessels: \$116 million 12 million

Helicopters:

6 million

Materials and consumables:

54 million

Leasing one offshore drilling rig, supply vessels and other equipment

as may be required.

Contractors

Southeastern Commonwealth Drilling Co. -

Semi-submersible drilling vessel

Balder Offshore Ltd., Secunda Marine Ltd., Seaspan International and SGA Base Ltd. -

Supply vessels

Employment

Permanent: 245 employees

Contact

C.A. Bonke, Calgary, (403) 232-3111

S06-08

VENTURE	CAS	DEABL	OPMENT

VALUE: \$ 2,480 million

Mobil Oil Canada Ltd. Sponsor

Class - Type 07 - Offshore Gas Development

Location Nova Scotia - 210 km offshore, near Sable Island

Description Development of offshore gas production

> facilities, and construction of a subsea pipeline to shore and an onshore gas plant. Production of

365 million cubic feet per day is targetted.

Facilities Platforms: \$695 million

> Production facilities and wells: 845 million

Subsea pipeline: 635 million 305 million

Onshore facilities:

Participants Mobil Oil Canada Ltd. (42%)

> Petro-Canada Inc. (30%) Texaco Canada Ltd. (18%)

Nova Scotia Resources Ltd. (10%)

Status Engineering under way

Timing Start - 1987 Completion - 1991

Contractors Fluor Canada/SNC/Whitman-Ben - Project services

contractor

Employment Construction: 12,000 person years

Permanent: 500 employees

Contact H.S. Aitkin, Halifax, (902) 421-2800

MO3 - O2

BP	RESOURCES	-	OFFSHORE	NEWFOUNDLAND
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VALUE: \$

265 million

Sponsor BP Resources Canada Limited

Class - Type | 09 - 0il and Gas Exploration

Location Newfoundland - offshore

Description A single well drilling program which is scheduled to end in 1986. Depending on the results of

current drilling, and proposals being considered by the Energy Minister, the drilling program may

be extended to 1988 with additional wells.

Participants | BP Resources Canada Limited

Chevron

Petro-Canada

Status Engineering under way

Timing Start - 1985 Completion - 1986

Major Drilling rig

Equipment | Support vessels

Employment | Construction: 400 person years

Contact W.A. Cunningham, Calgary, (403) 237-1189

B08-01

ESSO	EAST	COAST	EXPLOR/	ATTON	PROJECT

VALUE: \$

113 million

Esso Resources Canada Ltd. Sponsor

09 - 0il and Gas Exploration Class - Type

Location Newfoundland - Flemish Pass, 400 km east

of St. John's

Description A project to drill and evaluate two offshore

exploration wells. No construction of equipment

or facilities is involved.

Participants Esso Resources (Operator) (5%)

10 participating partners (95%)

Status Under construction/Under way

Timing Start - 1985 Completion - 1986

Major Drilling rigs:

\$47.0 million 5.5 million Equipment Support vessels:

Helicopters:

5.7 million

Contractors SEDCO - Drilling contractor

Universal - Helicopter services

Employment Permanent: 250 employees

Contact T.W. Melnyk, St. John's, (709) 579-5770

E01-17

	- 149 -					
GRAND BANKS OIL DEVELOPMENT PROJECT						
Olding plants of		000 million				
	VIIIO II V	JOO MELLION				
Sponsor	Petro-Canada Resources					
Class - Type	07 - Offshore Oil Development					
	•					
Location	Newfoundland - 350 km from St. Jo on the Grand Banks	ohn's				
Description	An offshore oil development project using a floating production system. The design production rate will be in the range of 60,000 barrels per day. Decisions to proceed and timing of the development will be determined by the results of future exploration and delineation drilling.					
Facilities	Oil processing and re-injection of Accommodations Offloading facilities and tankers					
Status	Possible					
Timing	Start - 1988 Complet:	ion - 1991				
Major	Production semi-submersible:	\$500 million				
Equipment	Subsea tree, manifolds	,				
•	and templates:	250 million				
	Flowlines:	250 million				
	Riser systems:	150 million				
	Tankers:	200 million				
	Drilling/completion:	600 million				
Contact	N.F. McIntyre, Calgary, (403) 296	5-8000				
		P04-10				

	- 150 -
HIBERNIA OIL DI	EVELOPMENT VALUE: \$ 3,750 million
Sponsor	Mobil Oil Canada Ltd.
Class - Type	07 - Offshore Oil Development
Location	Newfoundland - Offshore
Description	Development of an offshore production and transportation system for the Hibernia oilfield. Production rates range from 60 to 150 thousand barrels daily. Construction costs will range between \$2.5 billion and \$5.0 billion depending on the production system and output selected.
Facilities	Drilling and production facilities Subsea equipment Loading platforms Shuttle tankers
Participants	Mobil Oil Canada Ltd. (28%) Gulf Canada Resources Inc. (25%) Petro-Canada Inc. (25%) Chevron Canada Resources Ltd. (16%)
Status	Engineering under way
Timing	Start - 1986 Completion - 1991
Employment	Construction: 5,000 to 24,000* person years Permanent: 1,000 to 1,300* employees
	* Depending on whether a floating or gravity-based system is selected.

W. Abel, St. John's, (709) 778-7000

M03-01

Contact

HUSKY/BOW	VALLEY	GRAND	BANKS	EXPLORATION

VALUE: \$

1,040 million

Sponsor Husky/Bow Valley East Coast Project

Class - Type | 09 - 0il and Gas Exploration

Location Newfoundland - Offshore

Description

Execution of six exploration agreements covering
1.9 million hectares in the vicinity of the
Hibernia, Hebron and Ben Nevis oil discoveries.
Drilling of up to 20 wells is contemplated along
with the shooting of up to 15,000 km of seismic.
A four well, \$300 million work program is planned

for 1985 and 1986.

Participants | Husky Oil Operations Ltd.

Bow Valley Industries Ltd. Mobil Oil Canada Ltd.

Petro-Canada Exploration Inc. Gulf Canada Resources Inc. Norcen Energy Resources Ltd.

Parex

Status Under construction/Under way

Timing Start - 1983 Completion - 1987

Major Offshore oil well drilling rigs

Equipment Supply boats

Helicopter services

Various equipment and supplies

Contractors | Bow Valley Offshore Drilling - Drilling rig

contractor

Sedco Drilling Company - Drilling rig contractor Husky Marine Services - Supply vessel contractor

Employment | Permanent: 560 employees

Contact L. Prather, St. John's, (709) 722-6209

H05-04

LOWER CHURCHILL PROJECT, PHASE I

VALUE: \$ 3,200 million

Sponsor Newfoundland and Labrador Hydro

Class - Type | 49 - Hydroelectric Generation

Location Newfoundland - Lower Churchill River,

100 km from Goose Bay, Labrador

Description | Construction of a 1,700 MW hydro power station at

Gull Island on the Lower Churchill River including a $400\ \mathrm{kV}$ DC transmission line to

Newfoundland.

Facilities Dam

Powerhouse

HVDC transmission line with terminals

Participants | Newfoundland and Labrador Hydro (51%)

Government of Canada (49%)

Status Possible

Employment | Construction: 9,800 person years (peak)

Permament: 140 employees

Contact W.S. Read, St. John's, (709) 737-1400

N17-01

LOWER CHURCHI	LL	PROJECT	, PHASE	II
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VALUE: \$ 2,200 million

Sponsor Newfoundland and Labrador Hydro

Class - Type | 49 - Hydroelectric Generation

Location Newfoundland - Lower Churchill River,

33 km from Goose Bay, Labrador

Description Construction of a 600 MW hydroelectric power

station at Muskrat Falls and a second 400 kV DC

transmission line to Newfoundland.

Participants | Newfoundland and Labrador Hydro (51%)

Government of Canada (49%)

Status Possible

Major Hydraulic turbine generators

Equipment | Electrical and mechanical equipment

DC transmission line equipment

Employment | Construction: 6,500 person years (peak)

Permanent: 50 employees

Contact W.S. Read, St. John's, (709) 737-1400

N17-02

NEWFOUNDLAND OFFSHORE EXPLORATION

VALUE: \$

439 million

Sponsor | Petro-Canada Resources

Class - Type | 09 - Exploration Program

Location | Newfoundland - Offshore

Description | Exploration drilling of up to 9 wells and

15,000 km of seismic.

Participants | Petro-Canada Resources

Mobil 0il

Gulf Canada Resources Canterra Energy Ltd. ICG Resources

PAREX

Trillium Exploration Corp.

Status Under construction/Under way

Timing Start - 1985 Completion - 1987

Major Semi-submersible drilling rig

Equipment | Supply boat

Helicopter services

Contractors Offshore Drilling Contractors

Contact J.L. Evans, Calgary, (403) 296-5595

P04-09

OFFSHORE LABRADOR OIL AND GAS EXPLORATION

VALUE: \$ 450 million

Sponsor Petro-Canada Resources

09 - 0il and Gas Exploration Class - Type

Location Newfoundland - Offshore near Labrador

Description Execution of a five year exploration program off the coast of Labrador. The drilling program is

> reviewed on an annual basis. There is no drilling planned for the 1985 drilling season.

Participants Petro-Canada Resources (21.4%)

> Gulf Canada Resources Inc. (22.9%) Canterra Energy Ltd. (17.1%)

Ranchmen's Resources (1976) Ltd. (11.7%) Suncor Inc. (10%)

AGIP Canada Inc. (10%)

Amerada Minerals Corp. of Canada (6.9%)

Status Under construction/Under way

Timing Start - 1982 Completion - 1986

J.L. Evans, Calgary, (403) 296-5595 Contact

P04-18

ADVANCED TRAIN CONTROL SYSTEMS

VALUE: \$ 10,500 million

Sponsor Railway Association of Canada/Association of

American Railroads

Class - Type | 45 - Rail Transportation

Location Interprovincial

Description A (\$7-14 billion) cooperative research project in

which 4 Canadian and 7 U.S. railways have invited suppliers to propose means of satisfying their requirements for new train control systems. A consortium of system engineers has been retained to evaluate the technologies and design the basic

architecture of the systems.

Participants | Railway Association of Canada (50%)

Association of American Railroads (50%)

Status Engineering under way

Timing Start - 1986 Completion - 1995

Contact P.J. Detmold, Montreal, (514) 395-6626

R12-01

- 157 -				
ALASKA HIGHWAY GAS PIPELINE, PHASE II				
	VALUE: \$ 10,050 million			
Sponsor	Foothills Pipe Lines (Yukon) Ltd.			
Class - Type	46 - Natural Gas Pipeline			
Location	Interprovincial - From Prudhoe Bay, Alaska along the Alaska Highway to join existing Phase I facilities at Caroline, Alberta.			
Description	Construction of a major 2,550 km, natural gas pipeline for delivery of Alaskan gas to U.S. eastern and western markets through linkage to existing pipeline facilities. The first phase facilities were completed in 1982. Phase II timing has yet to be decided.			
Facilities	Pipeline, 1,422/1,219/1,067 mm: \$6,000 million 17 compression stations: 736 million			
Participants	Nova, An Alberta Corporation (50%) Westcoast Transmission Company Limited (50%)			
Status	Possible			
Major Equipment	Construction equipment Linepipe Coating and foundation material Valves and fittings Compression & metering equipment (25 units in 17 stations)			
Employment	Construction: 30,000 person years Permanent: 300 employees			
Contact	H.N.E. Hobbs, Calgary, (403) 294-4111			

F04-01

	PROJECT

VALUE: \$

3,700 million

Sponsor

Husky Oil Operations Ltd.

Class - Type

07 - Heavy Oil Production and Upgrading

Location

Interprovincial - Lloydminster

Description

Construction of an upgrading plant, to be built in Lloydminster, Saskatchewan, to process heavy oil production from the Lloydminster and Cold Lake areas of Alberta and Saskatchewan. Ultimate production capacity will be 8,600 cubic metres per day. The capacity of the upgrader alone will be 7,336 cubic metres per day. Field production facilities will be developed on a continuous basis through to the year 2011 providing an additional 18,765 person years of employment during construction and 2,600 permanent employees.

Facilities

Heavy oil production facilities: \$2,542 million

Upgrader complex:

1,200 million

Status

Engineering under way

Timing

Start - 1984

Completion - 1988

Major

Equipment

Upgrader complex equipment:
Production equipment:

\$430 million 640 million

Contractors

Husky Oil Operations Ltd. - Project Manager and

operator

Employment

Construction: 4,450 person years (upgrader)
Permanent: 300 employees (upgrader)

Contact

M.L. Peterson, Calgary, (403) 298-6111

H02-02

CANADIAN PATROL FRIGATE (CPF) PROJECT

VALUE: \$ 3,200 million

Sponsor Department of National Defence

Class - Type | 80 - Government

Location Interprovincial - Saint John,

New Brunswick, Montreal and Sorel, Quebec

Description Design and construction of six frigates of about

4,200 tons displacement.

Facilities New combat systems test facility

in Montreal (not. incl.): \$25 million

Status Under construction/Under way

Timing Start - 1985 Completion - 1992

Contractors | Saint John Shipbuilding Ltd. - Prime contractor

Paramax Electronics Inc. - Principal

subcontractor responsible for combat systems

Employment | Construction: 30,000 person years

Contact Saint John Shipbuilding Ltd.:

P. Jaquith, Saint John, (506) 632-3232

Paramax:

P. Auerbach, Montreal, (514) 335-8310

CANADIAN SUBMARINE ACQUISITION PROJECT (CASAP)

VALUE: \$ 1,000 million

Sponsor Department of National Defence

Class - Type | 80 - Government

Location | Interprovincial - Exact locations not

yet established

Description Construction of from 4 to 12 conventionally

powered submarines.

Status Possible

Timing Start - 1987 Completion - 1997

Major Diesel engines

Equipment Electric propulsion system

Weapons systems

Contact A. MacWaters, Ottawa, (613) 996-3177

CF-18 NEW FIGHTER AIRCRAFT

VALUE: \$ 2,369 million

Sponsor Department of National Defence

Class - Type | 80 - Government

Location Interprovincial - Sub-contracts to

various regions of Canada

Description This project involves the acquisition of 138 new

fighter aircraft to replace Canada's aging fighter fleets at Cold Lake, Alberta, Bagotville, Quebec, and Baden, West Germany. Industrial benefits will be derived primarily through sub-contracting and offsets. Offsets are

available through the prime contractor.

Status Under construction/Under way

Timing Start - 1980 Completion - 1988

Contractors | McDonnell Douglas Corp. - Prime contractor

J. Caruso, St. Louis, Missouri, (314) 232-4135

Employment | Construction: 65,000 person years

Contact R. Hawkins, Ottawa, (613) 995-5293

CN MARINE PASSENGER FERRY I

VALUE: \$ 157 million

Sponsor

CN Marine Inc.

Class - Type

45 - Marine Transportation

Location

Interprovincial - Vessel construction in

Lévis, Quebec

Description

Construction of a 1,200 passenger roll on/roll off ferry (Gulfspan Class) and associated docks

to provide service between Nova Scotia and

Newfoundland.

Facilities

Port-aux-Basques dock:

\$ 6 million

North Sydney dock:

21 million

Status

Under construction/Under way

Timing

Start - Jan. 1983

Completion - Nov. 1985

Major

Equipment

Vessel - 15,300 tonnes, 179 metres: \$130 million

Contractors

Davie Shipbuilding Ltd. - Vessel Monenco-Canamont - North Sydney dock

Robb Engineering Ltd. - Steel construction for

Port-aux-Basques dock

L.D. Fahey & Eastcon - concrete for

Port-aux-Basques dock

Employment

Construction: 1,600 person years

Contact

R.G.A. Lawrence, Moncton, (506) 858-3770 C40 - 01

CN MARINE PASSENGER FERRY II

VALUE: \$ 150 million

Sponsor

CN Marine Inc.

Class - Type

45 - Marine Transportation

Location

Interprovincial - Ferry service between

Nova Scotia and Newfoundland

Description

A project to further augment the Gulfspan Class

Ferry Service between Nova Scotia and

Newfoundland. A roll on/roll off passenger ferry of similar characteristics to those outlined in

the Passenger Ferry project described on the

previous page.

Status

Possible

Timing

Start - 1987

Completion - 1989

Major

Equipment

Vessel - 15,300 tonnes, 179 metres

Employment

Construction: 1,600 person years

Contact

R.G.A. Lawrence, Moncton, (506) 858-3770

C40 - 02

CN RAIL WESTERN CAPACITY EXPANSION

VALUE: \$ 700 million

Sponsor

CN Rail

Class - Type

45 - Railway Expansion

Location

Interprovincial - Four western provinces

Description

A major program of expansion of the CN Rail mainline and major terminals through a series of individual capital expenditures in the \$10 million to \$50 million range (totalling some \$600 million to \$750 million). The project will increase handling capacity in the West in terms of the number of trains and tonnage per day of the company's mainlines and major terminals.

Status

Under construction/Under way

Timing

Start - 1980

Completion - 1990

Major

Rail and track material

Equipment

Track ties Ballast

Signal system material

Contact

I.G. MacDonald, Montreal, (514) 877-5085

C17-01

CP-140 LONG RANGE PATROL AIRCRAFT

VALUE: \$ 697 million

Sponsor

Department of National Defence

Class - Type

80 - Government

Location

Interprovincial - Various locations

across Canada

Description

DND acquired a fleet of eighteen CP-140 Long Range Patrol Aircraft to be used primarily for patrol tasks in Canadian coastal waters. The acquisition phase was completed in 1983 and all aircraft have been delivered. The industrial benefits program for the project runs to 1995; offset proposals will be considered until that

time by the prime contractor.

Status

Under construction/Under way

Timing

Start - 1976

Completion - 1995

Contractors

Lockheed Aircraft Corporation - Prime contractor J. Inkley, Burbank, California, (818) 847-4927

Employment

Estimated total potential employment in Canada from the industrial benefits package over the life of the project is in the range of

20,000-25,000 person years.

Contact

E. Norak, Ottawa, (613) 995-5358

CRUDE OIL PIPELINE SYSTEM EXPANSION - WESTERN CANADA VALUE: \$ 114 million

Sponsor Interprovincial Pipe Line Limited

Class - Type | 46 - Crude Oil Pipeline

Location Interprovincial - Alberta, Saskatchewan

and Manitoba

Description | Expansion of the existing system to increase

capacity to 37,000 cubic metres per day. Work will be undertaken in two phases. Phase I will accommodate an increment of 12,000 cubic metres per day of heavy and light crudes and Phase II an additional increment of 25,000 cubic metres per day. Phase I is currently under construction.

Phase II requires regulatory approval.

Status Under construction/Under way

Timing Start - 1985 Completion - 1986

Major Six new pumping stations (Ph. I)

Equipment | Modify two pumping units (Ph. I) | 15 new pumping stations (Ph. II)

New tank storage, Cromer, Manitoba (Ph. II)

Replace 14.2 km 34" pipe (Ph. II)

Line 3 injection facilities, Kerrobert and Regina

(Ph. II)

54 pumping units (Modify or replace) (Ph. II)

Employment | Construction: 2,500 person years

Contact R. Paddon, Edmonton, (403) 420-5210

J03-02

	- 167 -
DEMPSTER GAS P	IPELINE
	VALUE: \$ 4,000 million
Sponsor	Foothills Pipe Lines (Yukon) Ltd.
Class - Type	46 - Natural Gas Pipeline
Location	Interprovincial - Pipeline to extend from Mackenzie Delta through the N.W.T. and Yukon to interconnect with the Alaska Highway Gas Pipeline at a point near Whitehorse, Yukon.
Description	Construction of a 1,202 km, 864 mm dia. pipeline for transmission of Northern Canada gas to export markets via interconnection with the Alaska Highway Gas Pipeline. Note: The project arose from a 1977 Agreement between Canada and USA with respect to the Alaska Highway Gas Pipeline. Further regulatory activity awaits market demand.
Participants	Nova, An Alberta Corporation (50%) Westcoast Transmission Company Ltd. (50%)
Status	Possible
Major Equipment	Construction equipment: \$558 million Linepipe: 885 million Coating material and foundation material: 73 million
	Valves, fittings: 40 million Compression and
	metering equipment, etc.: 222 million
Employment	Construction: 6,000 person years Permanent: 130 employees
Contact	H.N.E. Hobbs, Calgary, (403) 294-4111 F04-02

FLIGHT DATA MODERNIZATION PROJECT (FDMP)

VALUE: \$ 230 million

Sponsor Transport Canada

80 - Government Class - Type

Location Interprovincial - Various locations

across Canada

Description Installation of a computerized information system

to improve the efficiency of acquiring,

processing, transferring and displaying flight

data.

Status Possible

Start - 1987 Timing Completion - 1996

Major Computer

Equipment Display terminals

Employment Construction: 68 person years

Contact H.J. Tolan, Ottawa, (613) 993-4062

LOCOMOTIVE ACQUISITION

VALUE: \$ 130 million

Sponsor

VIA Rail Canada Inc.

Class - Type

45 - Rail Transportation

Location

Interprovincial - Quebec/Ontario

(Montreal, Quebec and London, Ontario)

Description

The aquisition of 48 new, high horsepower locomotives to be used on transcontinental

lines.

Status

Engineering under way

Timing

Start - May 1985 Completion - April 1987

Major

48 Diesel electric passenger

locomotives, 3,000 HP:

\$123 million

Contact

Equipment

L. Elliot, Montreal, (514) 286-2568

V07-03

- 170 -					
LONGHAUL CARS PROJECT					
	VALUE: \$ 700 mi	llion			
Sponsor	VIA Rail Canada Inc.				
Class - Type	45 - Rail Transportation				
Location	Interprovincial — Mostly Quebec and On	tario			
Description	Procurement of 213 cars of AMTRAK's su vintage adapted to the Canadian contex on Canadian transcontinental routes. manufacturing will involve supply of p components from across Canada includin other things, stainless steel for car doors, windows, HVAC units, toilet and systems, interior furnishings, trucks, electrical systems.	The arts and g, among bodies, sewage			
Facilities	Railway tunnel modification (BC), Station modifications (Montreal, Winnipeg), and track upgrading (Ontario, Manitoba): \$	50 million			
Status	Engineering under way				
Timing	Start - 1986 Completion -	1992			
Major Equipment	Sleeping cars (93):	53 million 06 million 41 million			
Employment	Construction: 7,550 person years				
Contact	C. Cayonette, Montreal, (514) 286-2495 VO	7-02			

MACTUNG MINE	
	VALUE: \$ 100 million
Sponsor	AMAX Northwest Mining Co. Ltd.
Class - Type	61 - Tungsten Mine
Location	Interprovincial - MacMillan Pass between Yukon and Northwest Territories
Description	Construction of a 500 to 1,000 tonnes per day tungsten mine and concentrator.
Facilities	Mine Concentrator Power plant Living accommodation Access road upgrading (Canol Road) Airstrip upgrading (Tischu River)
Status	Engineering under way
Timing	Start - 1986 Completion - 1988
Employment	Construction: 450 person years Permanent: 200 employees
Contact	J.C. Devitt, Vancouver, (604) 689-0541 A15-01

MICROWAVE LANDING SYSTEM (MLS)

VALUE: \$ 450 million

Sponsor Transport Canada

Class - Type 80 - Government

Location Interprovincial - Airports across Canada

Description Installation of new Microwave Landing Systems

> (MLS) as the standard precision approach guidance system in Canada, replacing the present

Instrument Landing System (ILS) at Canadian

airports.

Engineering under way Status

Start - 1985 Timing Completion - 2000

Contact H.J. Tolan, Ottawa, (613) 993-4062

POLAR CLASS 8	VALUE: \$ 450 million
Sponsor	Transport Canada
Class - Type	80 - Government
Location	Interprovincial - Exact locations to be determined
Description	Construction of a 37,000 ton icebreaker. Contract definition studies are being carried out by Saint John Shipbuilding Ltd., Davie Shipbuilding Ltd., and Burrard Yarrows Ltd. The contract definition phase was completed in March 1985.
Status	Possible
Timing	Start - Jan. 1986 Completion - Jan. 1991
Major Equipment	Propulsion system: - gas turbines, 2 x 25,000 H.P diesel engines, 4 x 12,500 H.P motors, 100,000 H.P.
Employment	Construction: 4,200 person years Permanent: 168 employees
Contact	A. MacWaters, Ottawa, (613) 996-3177 2-P04-10

POLAR GAS PIPELINE

Contact

VALUE: \$ 3,273 million

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Sponsor	TransCanada Pipelines Limited
Class - Type	46 - Natural Gas Pipeline
Location	Interprovincial - Northwest Territories and Alberta
Description	Construction of a 2,120 km gas pipeline, 914.4 mm in diameter with a capacity of approximately 23 million cubic metres per day and potential for doubling. The pipeline will be a contract carrier.
Facilities	Gathering and field processing (not incl.): \$1,920 million Downstream facilities (not incl.): 413 million Misc. buildings and foundations: 73 million
Participants	TransCanada Pipelines Limited (20%) Tenneco Energy Ltd. (20%) Ontario Energy Corporation (20%) Petro-Canada (20%) Panarctic Oils Ltd. (20%)
Status	Possible
Timing	Start - 1987 Completion - 1991
Major Equipment	Line pipe: \$832.6 million Pipe coating: 92.3 million Valves and fittings: 52.8 million Compressor assemblies: 36.5 million Refrigeration and heating assem.: 34.6 million
Employment	Construction: 3,941 person years Permanent: 456 employees

D.G. Clark, Toronto, (416) 869-2655

T01-01

- 175 -			
RADAR MODERNIZATION PROJECT (RAMP) VALUE: \$ 800 million			
	VALUE: \$ 800 million		
Sponsor	Transport Canada		
Class - Type	80 - Government		
Location	Interprovincial - Various airports across Canada		
Description	Procurement and installation of a new primary and secondary air traffic control radar system and new radar display system with associated equipment.		
Facilities	22 Primary and secondary radar installations for terminal surveillance radars 17 Secondary surveillance radar installations 29 Radar data processing and display systems		
Status	Under construction/Under way		
Timing	Start - 1984 Completion - 1994		
Contractors	Raytheon - Radar site equipment T.B.D Display and data processing		
Employment	Construction: 6,000 person years		
Contact	H.J. Tolan, Ottawa, (613) 993-4062 2-P04-04		

SABLE GAS SYSTEMS - NATURAL GAS TRANSMISSION

VALUE: \$ 1,000 million

Sponsor Sable Gas Systems

Class - Type | 46 - Natural Gas Pipeline

Location Interprovincial - Offshore and mainland

and New Brunswick

Description A project to design, build, own and operate a transmission system carrying natural gas and

condensates from offshore facilities to onshore gas conditioning and fractionation plants. Gas sales will be to an export point on the New Brunswick - Maine border. Note that there is also an offshore pipeline portion of the Mobil Venture Gas Development Project listed in this

section.

Facilities Offshore pipeline

Onshore pipeline

Compressor and metering facilities

Gas conditioning plant

Natural gas liquids line and district offices

Dock facilities Rail access and road

Participants TransCanada Pipelines (Operator) (50%)

Nova Scotia Resources Ltd. (50%)

Status Possible

Timing Start - 1988 Completion - 1989

Employment | Construction: 2,900 person years

Permanent: 220 employees

Contact I.A. Thompson, Halifax, (902) 421-3103

S34-01

SHIP REPLACEMENT PROJECT (SRP) PHASE II

VALUE: \$ 2,600 million

Sponsor Department of National Defence

Class - Type | 80 - Government

Location | Interprovincial - Exact location not

yet established

Description Design and construction of six frigates similar

to vessels in the Canadian Patrol Frigate (CPF) project also listed in this section. Studies are under way to establish the combat systems configuration. An implementation contract is to

be awarded in 1987.

Status Engineering under way

Timing Start - 1992 Completion - 1995

Employment | Construction: 25,000 person years

Contact M.J. Colpitts, Ottawa, (613) 996-3177

2-P04-11

TRANSCANADA PIPELINES EXPORT FACILITIES

VALUE: \$ 826 million*

Sponsor TransCanada Pipelines Limited

Class - Type 46 - Natural Gas Pipeline

Location Interprovincial - Saskatchewan, Manitoba,

Ontario and U.S. states of New York and

Pennsylvania.

Description Construction of expansions, interconnections and

new pipelines to provide for a large increment of Canadian gas to the north central and northeastern U.S.A. Canadian suppliers will be able to pursue opportunities in the U.S.A. This project is competing for regulatory approval in Canada and the U.S.A. with the CAN-AM Pipeline

project (see the Saskatchewan section). (*NOTE: The Canadian portion is \$826 million

while the U.S.A. portion is \$929 million.)

Participants TransCanada Pipelines Limited

Union Gas

Great Lakes Gas Transmission) Pipeline companies

Niagara Interstate Pipeline) in the U.S.A.

Status Possible

Start - 1986 Timing Completion - 1988

Major Construction equipment

Equipment Main linepipe

Coating and foundation material

Valves and fittings

Compression and metering equipment

Employment Construction: 6,000 person years (Cdn portion

only)

Contact F. Donnelly, Toronto, (416) 869-2353

T01-05

TRIBAL CLASS UPDATE & MODERNIZATION PROJECT (TRUMP)

VALUE: \$

650 million

Sponsor Department of National Defence

Class - Type | 80 - Government

Location Interprovincial - Precise locations not

yet determined

Description Update and modernization (mid-life) of four

Tribal Class DDH 280 destroyers. A feasibility

study has been completed and the contract

definition contract was completed in March 1985. Award of the implementation contract is scheduled

for late summer 1985.

Status Engineering under way

Timing Start - 1985 Completion - 1988 (est.)

Contractors Litton Systems Limited - Study for contract

definition (T. McGuigan, Vice-President)

Employment

Construction: 7,000 person years

Contact M.J. Colpitts, Ottawa, (613) 996-3177

2-P04-12

VIA HIGH SPEED CORRIDOR PROJECT

VALUE: \$ 2,610 million

Sponsor VIA Rail Canada Inc.

Class - Type | 45 - Rail Transportation

Location | Interprovincial - Quebec/Ontario

Description

Construction of facilities for a high speed passenger rail service (200 - 300 km/h) in the central corridor of Quebec to Windsor which would only operate on passenger tracks. The project's start-up has not been decided and it is estimated

that it would require ten years to complete.

Facilities Track:

Track: \$313 million
Signal Systems: 185 million
Electrification: 222 million
Crossings/bridges: 283 million
Construction: 563 million
Rolling stock: 945 million

Status Possible

Major Equipment Electrical distribution & traction equipment Signalling and communications equipment

Wayside equipment and structures

Track Ballast Ties

Rail fastenings Bridge materials

Traffic control and safety equipment

Employment

Construction: 73,500 person years

Contact

R. Bechamp, Montreal, (514) 286-2407

V07-05

EXPLANATION OF FORMAT AND TERMS USED

Investment Value

As far as possible, project value is quoted in constant 1984 dollars excluding Allowance for Cost of Funds Used During Construction.

Sponsor and Participants

The sponsor listed is generally the owner or operator of a project. If there is more than one participant, as many as space permits are listed under Participants, and their share of the project is indicated. Some respondents may have indicated the share of contributions by entities which may not enjoy ownership rights, e.g., the share of investment value represented by government grants.

Industry, Investment Classification

Each project is grouped under one of the fifteen industry classes listed below. The classification codes are loosely linked to selected Standard Industrial Classification (SIC) codes. The classification is according to a project's output.

Project Classification Codes

- 07 Conventional & Non-Conventional Oil & Gas
- 09 Oil & Gas Exploration
- 25 Wood Industries
- 27 Paper & Allied Products Industries
- 29 Primary Metal Industries
- 36 Refined Petroleum Products
- 37 Chemical & Chemical Products Industries
- 45 Transportation
- 46 Pipelines
- 49 Electric Power
- 61 Metal Mining
- 62 Non-Metallic Mining
- 63 Coal Mining
- 80 Government
- 90 All Other Industries

Geographical Location

Projects are also grouped by geographical location (starting with the Northwest Territories, then working east from B.C.) and within this are grouped alphabetically by project name. Interprovincial projects (involving more than one province or Territory) are listed separately, following those in Newfoundland.

Description

The general description covers the overview and qualitative attributes of each project. It may amplify or clarify some aspects of the project such as status and timing covered by other specific headings. The specific headings follow restricted formats to make comparisons and groupings as clear as possible.

Facilities

This heading contains a list or description of systems, areas or major parts of each project such as transmission lines, docks, substations, and processing stages. Included are any available measures of a facility's capacity and value within the project as a whole.

Status

The listing of projects in the centre of the publication includes three project status levels:

Possible Engineering under way Under construction/Under way

These levels were determined based on information in a checklist completed by project sponsors. The checklist questions are:

		ick the sentence(s) best describing the status of ject and fill in the information where requested:
Α.		While the project is desired by our Company, it is not proceeding at the present time.
В.		The project is in the formulative or planning stages. A feasibility study:
		has been completed. has not been completed.
C.		Technical and engineering studies are under way.
		A design or development plan:
		has been completed. has not been completed.
D.		The project is proceeding. Detailed engineering is under way and:
		has been completed. $\hfill \square$ has not been completed.
E.		Construction is approved to proceed and:
		has started. has not started.
F .		A prime contractor is required and:
		has been selected. has not been selected.
G.	Proc	urement of materials and equipment:
		has started. has not started.
Н.		The construction of the project is completed. The plant is in:
		a starting-up phase partial operation.
		fully operational.
I.		Other (Please describe):

Some amplification and/or clarification of a project's status may be included under **Description**.

Timing

Start and completion years are indicated wherever possible. This heading will not appear when the timing has not been established. In most instances the project could proceed within the next ten years. The **Description** section may also contain statements which help to understand project timing.

Major Equipment

Project sponsors were asked to provide details on major equipment requirements including information on capacity and cost. Wherever possible, full equipment information has been included in the publication. In a few instances part of the information was not included due to space limitations. We would be happy to provide any information we may have which was not included for this reason.

The project Contact might be a better source of firsthand detailed information for prospective suppliers.

Contractors

Project sponsors were asked to provide details on major service contracting requirements such as the Management, Engineering, Procurement and Construction (MEPC) contractor. Wherever possible, this information has been included in the publication. In a few instances part of the information was not included due to space limitations. We would be happy to provide any information we may have which was not included for this reason.

Employment

Construction employment is normally the total number of person years required during construction; one person for one year is one person year but one person for five years would be five person years. If a different employment assumption is used for construction person years, this is noted, e.g. person years (peak).

Contact

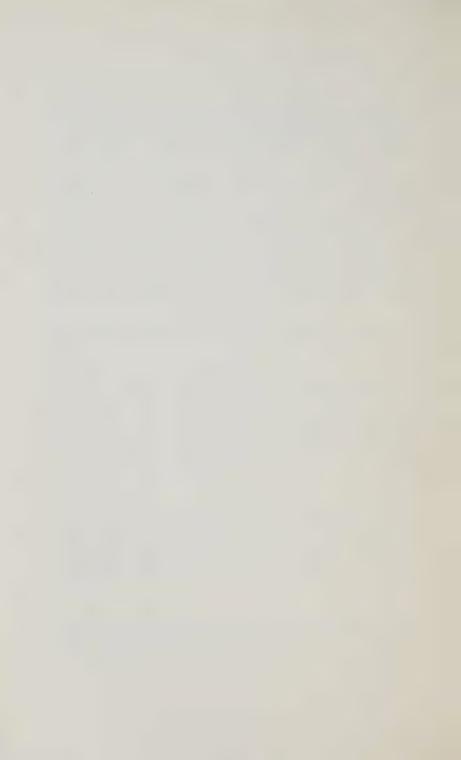
The name, city and telephone number of the person designated by the sponsor company to act as contact for users of the publication is noted.

User Mailing Address Changes

To ensure continued receipt (or register a new user) of the Inventory please complete the form on the last page and return it to the address shown on the form.

Project Number

All projects have been assigned new numbers. These numbers appear as the bottom line of text on each page on the right hand side.



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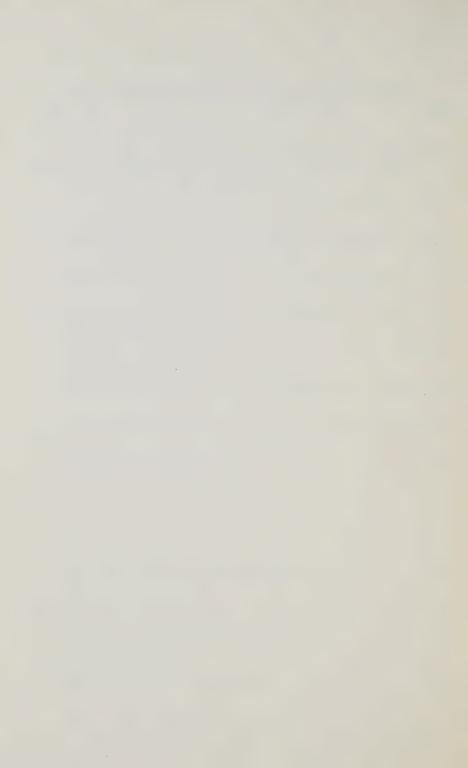
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